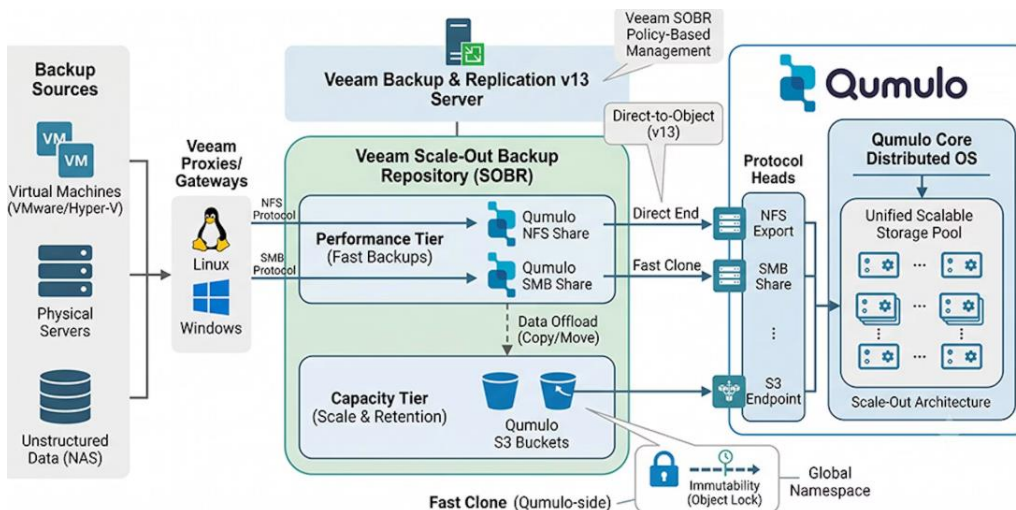


Certified Backup and Recovery for all Workloads with Qumulo and Veeam

ANY DATA.
ANY LOCATION.
TOTAL CONTROL.

Backup strategy is in transition. Object storage is fast becoming the high security standard, as S3's Object Lock feature offers WORM immutability that standard NFS/SMB shares don't provide natively. At the same time, some backup admins worry that object platforms can't match the throughput block-based backups demand. That leaves organizations running two platforms at once: legacy file storage for existing workloads, and a new S3 platform to meet emerging security requirements, with a slow migration in between. Qumulo Core 7.8.4 ends that trade-off. Certified as a Veeam Data Platform v13 Ready Repository across NFS, SMB, and S3, and with an additional Object Lock/Immutability certification, Qumulo delivers full performance on every protocol, so teams don't have to choose a platform or manage the transition between them.



THE CHALLENGE

Running two backup platforms during a file-to-object transition is more than just inconvenient; it's a structural drag. Backup teams must maintain separate admin consoles, separate retention policies, and separate capacity plans for legacy NFS/SMB shares and a new S3 target, while migrating live data between them without breaking backup windows. Pure object platforms, meanwhile, carry their own risk: many can't sustain the concurrent-stream throughput Veeam's ingestion engine demands, forcing teams to choose between the security benefits of S3 and the performance their RTOs require.

KEY BENEFITS

True Multi-Protocol, Single Namespace. NFS, SMB, and S3 run natively on one Qumulo cluster, not through bolted-on gateways. Admins design one topology instead of stitching together separate file and object silos.

Compliance Mode That Survives Compromise. Object Lock retention closes the single biggest attack vector in backup infrastructure by blocking any user, including a breached admin account, from deleting or modifying data until the retention period expires.

Linear Scale, Zero Disruption. Capacity and performance grow by adding nodes, not by replacing arrays. Backup windows keep running uninterrupted through every expansion.

Validated for Veeam's Fastest Recovery Paths. Qumulo's IOPS support Instant VM Recovery, Instant File-Level Restores, and Veeam DataLabs, so VMs boot straight from the repository while permanent migration finishes in the background.

**Full protocol freedom,
full performance, full
ransomware
protection — no trade-
offs required**

SOLUTION OVERVIEW



Deployment starts with a Qumulo Core cluster — software-defined and hardware-agnostic, running on on-prem on your choice of industry-standard x86 nodes or in your choice of public cloud platform. Each node

contributes flash/SSD capacity and 100 GbE connectivity to a single scale-out namespace built on a durable data layer that can expand to hundreds of petabytes in size. NFS exports, SMB shares, and S3 buckets are all served from that same namespace — no separate object array, no gateway translation layer, no silos.

Once the foundation is laid, Veeam drives the data flow: dozens of backup proxies stream concurrently over unique network paths into Qumulo's flash tier at the throughput Veeam's ingestion engine demands. Prefetch algorithms predict read patterns and stage data in memory ahead of restore requests, keeping recovery fast regardless of dataset size. Backup and storage admins get a single control plane: one topology to design, one namespace to monitor, one policy to set.

For S3-based backups, that policy centers on Compliance Mode object locks — once Veeam applies a retention period, no user, including a compromised storage admin, can modify or delete the object until it expires. AES-256 encryption secures data at rest. Integrated, intuitive analytics surface capacity, throughput, user activity, and anomalies in real time.

When capacity runs low, scaling is simple: add one or more nodes as needed. Qumulo grows capacity and with zero disruption to active backup windows, so there are no forklift upgrades, no rip-and-replace. And when disaster strikes, Veeam can boot VMs instantly from the repository while permanent migration completes



quietly in the background.

KEY TAKEAWAYS

- **Recovery time objectives shrink** because VMs boot instantly from the backup repository itself, not after a lengthy restore.
- **Ransomware risk drops** because backup data stays untouchable even if an admin account is compromised, giving compliance and legal teams the verified immutability that SEC 17a-4, FINRA, and HIPAA now expect.
- **Compliance Mode That Survives Compromise.** Object Lock retention blocks deletion or modification by any user, including a breached storage admin account, until the retention period expires. That closes the single biggest attack vector in backup infrastructure.
- **Infrastructure spend simplifies** too: a single platform consolidates NFS, SMB, and object backup workloads, where capacity expands simply by adding nodes instead of forklift refreshes.

CONCLUSION

Qumulo Core 7.8.4 and Veeam Data Platform v13 combine to give enterprises a consolidated solution that delivers multi-protocol backup, flash-driven read and write performance, and ransomware-proof immutability, all validated under the vigorous Veeam Ready testing rather than marketing claims. Every protocol solution is certified by Veeam, with an independent testing record to validate it. For IT leaders weighing a Veeam v13 upgrade or a storage refresh, that's one fewer thing to take on faith.

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.