World's Most Advanced Filesystem: Any Data, Any Location, Total Control

Qumulo

Qumulo for Modern Enterprises

Modern enterprises generate, process, and rely upon unstructured data at a scale and pace that legacy architectures cannot match. From AI model training and enterprise-wide backup to digital media workflows and national security telemetry, data is both the substrate and the differentiator. Yet most infrastructure remains siloed, hard to automate, and too brittle to handle today's performance, durability, and security demands.

Qumulo is a software-defined, cloud-native data platform built for global scale. It unifies high-throughput ingest, strict consistency, automation, and cloud mobility—enabling critical workloads on-premises, in the cloud, or both. It runs identically on any x86/ARM server, edge device, or cloud instance, ensuring portability and avoiding vendor lock-in. Don't see your vendor? Let us know.

Core Capabilities

- **Strictly Consistent Global Namespace**
  Guarantees strong write and read consistency, enabling collaboration, analytics, and policy enforcement across locations without requiring excessive replication.

- **NeuralCache™ Predictive I/O**
  Learns access patterns for high-throughput read-ahead and write buffering, delivering 92–98% hit rates and reducing cloud API and egress costs by up to 99%.

- **Cloud-Native Operations**
  Automate deployment, scaling, and policy enforcement with full REST APIs, Terraform modules, and declarative infrastructure-as-code models.

- **Built-In Resilience and Observability**
  Telemetry-rich, self-healing clusters with real-time insights and predictive failure detection for proactive support and fleet-wide health management.

- **Shared-Nothing Multi-Tenant Architecture (Stratus)**
  Enables cryptographically isolated tenants—ensuring full security and compliance for regulated industries and classified programs, even within shared physical infrastructure.

A Modern File Data Experience

Qumulo Run Anywhere
Unlike legacy storage systems, Qumulo is 100% software-defined, meaning it runs consistently across on-prem, cloud, or hybrid environments—on any x86/ARM server. This lets modern enterprises avoid vendor lock-in, simplify infrastructure, and deploy anywhere while maintaining a single, unified file system.

Intelligent Performance with NeuralCache
Qumulo NeuralCache uses machine learning to optimize reads and writes, improving performance and drastically reducing cloud I/O costs by up to 99%

Cloud-Native, But Not Cloud-Limited
Qumulo is cloud-native by design, using object storage with real-time file semantics to enable secure, predictable scaling. It eliminates the need for data replication and app rewrites, ensuring cost control and compliance with data sovereignty requirements.

Multi-Tenant, Share-Nothing Architecture
With Qumulo Stratus, modern enterprises managing mergers or divestitures get cryptographic tenant isolation, customizable access controls, and secure onboarding/offboarding of data—without replatforming.

Customer Success
Qumulo zero-latency support enables fast issue resolution through direct access to experienced Customer Success Managers or file system engineers—no tickets required. Qumulo support has earned an NPS score of 95.

A Platform Built for the Most Demanding Data Workloads

Qumulo supports a wide spectrum of data-intensive workloads that share common demands: massive scale, strict consistency, low latency, high throughput, and uncompromising security. Whether semi-structured, or unstructured, Qumulo enables a unified platform for storing, accessing, analyzing, and protecting data across every tier. Common workloads that run on Qumulo include:

AI and Machine Learning
- High-performance training and fine-tuning pipelines
- Applied AI systems powering enterprise search, LLM retrieval-augmented generation, and inferencing at the edge

Enterprise Data Protection
- Distributed backup and recovery at scale with Rubrik, Commvault, and Veeam
- Tier-1 database backup and application protection
- On-demand DR with cloud as a Tier-3 warm site

Media, Video, and Digital Production
- Real-time 4K/8K editing and rendering pipelines for creative teams, even geographically distributed ones without pre-staging data or replication
- Enterprise marketing and marcom video production
- Global-scale film, animation, and VFX studios

Video Surveillance and Sensor Capture
- Continuous ingest of video streams and real-time AI analytics
- Facility security, public safety, and smart infrastructure

Autonomous Systems and Telemetry
- 90% of major ADAS/autonomous driving platforms worldwide run on Qumulo
- Flight telemetry and launch systems for space exploration
- UAS/UAV programs, satellite imagery ingestion, and multi-sensor data fusion

Financial Services and Document Management
- Risk analytics and fraud detection
- Document management at multi-billion-object scale for mortgage, card, and core banking systems

Government and Engineering Collaboration
- Esri ArcGIS data exchange and geospatial modeling
- Architectural and civil engineering collaboration for municipal agencies

Medical Imaging and Life Sciences
- PACS systems for hospital and diagnostic networks
- Genomic and proteomic research focused on cancer, rare disease, and degenerative neural disorders

Scientific Computing and HPC
- Wildfire modeling, nuclear simulation, and computational fluid dynamics
- Geophysical subsurface imaging and undersea reservoir simulation

National Intelligence and Defense
- Secure, multi-tenant architectures for classified programs
- Real-time satellite imagery processing, ISR fusion, and decision support systems

Why Qumulo?

- Runs Anywhere, Acts as One: Edge, core, and cloud behave as a unified platform—no forklift upgrades, no hardware lock-in.

- Data Sovereignty and Control: Built-in cryptographic separation and least-privilege security model align with zero trust mandates and global compliance.

- Engineered for Scale: Trusted by customers running hundreds of billions of files, multiple exabytes, and hundreds of tenants.

- Proven in Production: From AI clusters to defense telemetry to genomics and film studios—Qumulo powers the world's most critical workloads.

Conclusion

Qumulo is not just a file system. It is a foundational data platform for the unstructured era—where intelligence, creativity, safety, and science all converge. Whether you're modeling hurricanes, simulating a launch trajectory, training your next-gen AI agent, or producing a global blockbuster, Qumulo helps you manage, secure, and accelerate your most valuable asset: your data. Let's build the future of data on a foundation that's ready for it.

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