

Qumulo Hybrid Cloud File Storage with Igneous Data Management



The unstructured data within a single large organization can easily total billions of files and petabytes of data. Generally, the datasets within the modern enterprise will include a mix of small and large files often spread across heterogeneous siloed file systems.

Organizations need to manage and protect their overall storage capacities, and once data ages or cools, it is a best practice to migrate data to long-term archive or cloud storage. The location, usage, and movement of every version of billions of files across file systems, sites, and cloud platforms, needs to be tracked to enable quick retrieval when required.

Traditional solutions for visualizing, protecting, and moving data at the scale of modern enterprises are no longer efficient. This results in challenges for today's IT teams including rising costs, missed SLAs due to failing systems, and data centers that are near, or out of space.

Enterprises that employ Qumulo's hybrid cloud file storage can utilize Igneous' high-performance data management solution, which integrates directly with Qumulo's software, to index, protect, and move massive amounts of data without impacting production workloads.

SaaS Simplicity with Igneous for Qumulo Hybrid Cloud File Storage

Igneous™ offers comprehensive unstructured data management that was engineered for today's rates of data creation and change. Consisting of Igneous DataProtect™ for scale-out backup and archive services, and Igneous DataDiscover™ for index-and-search, Igneous solutions were specifically designed to support the massive amounts of unstructured data that define the modern enterprise.

Igneous' API integration, with Qumulo's distributed file system provides organizations with automated control over permissions, provisioning, and snapshot management. Igneous automatically discovers system exports, managing its own snapshots in conjunction with Qumulo's capabilities to ensure that only changed regions are copied. Igneous includes native support for Qumulo's software, scaling automatically across nodes to distribute the backup load without impacting production services.

Besides its ability to index, protect, and move data at line speeds from local scale-out NAS systems like Qumulo, Igneous includes native integration with all major cloud platforms – AWS, Google Cloud Platform (GCP), and Microsoft Azure – enabling simple, integrated access to online storage tiering and archive services as part of any file data management strategy, even at multi-petabyte scales. Data is moved rapidly between systems, sites, and the cloud, ensuring that data is always where it's needed, when it's needed.

SOLUTION BENEFITS

Simple SaaS experience: Visualize, protect and archive data from Qumulo's hybrid cloud file storage using Igneous data management – Igneous DataProtect™ for backup and archive services and Igneous DataDiscover™

Simple implementation

- Native support for NFS and SMB file systems
- SaaS simplicity with Igneous for Qumulo

High performance and reliability

- Data movement at line speeds
- Scalable across petabytes of data
- High performance indexing for file dense environments

Continuous data protection across all storage environments

- Logging and audit trails for all data movement
- Data protection policies managed on the Qumulo namespace
- Automated backups with latency awareness to protect applications

Native API integration with Qumulo hybrid cloud file software

- Delivers optimal data movement, snapshot management, and automated export discovery

Igneous and Qumulo analytics

- Visibility and actionable insights for billions of files
- Insights across the entire file system, to monitor usage and performance trends to gain control and reduce costs

Efficiency, flexibility, and choice

- Leverage existing Qumulo infrastructure, or the cloud, as a target for backup and archive
- Leverage Qumulo's file system deployed in the cloud for disaster recovery
- Qumulo's software-defined design allows hardware choice and flexibility

Qumulo Enterprise-Proven Hybrid Cloud File Storage

Qumulo hybrid cloud file storage software provides the performance and scalability needed to cost-effectively manage, protect, and store the petabyte-level volumes of data generated by today's applications, in both on-prem or cloud environments.

Managing growth is simple with Qumulo. The file system employs a software-defined design to utilize clusters of nodes made up of Qumulo hardware, or prequalified industry-standard hardware from HPE or Fujitsu, on-prem or in cloud environments. To increase performance and capacity levels uniformly, organizations just add nodes to the existing infrastructure when required, with no disruption, or downtime.

Qumulo's software provides built-in real-time analytics to provide insight across the entire file system, to enable storage administrators to easily monitor storage usage and performance trends. With this superior visibility, organizations can gain control and reduce costs, by proactively managing current needs and predicting future storage requirements.

Cost-Efficient, End-to-End Data Protection with Qumulo and Igneous

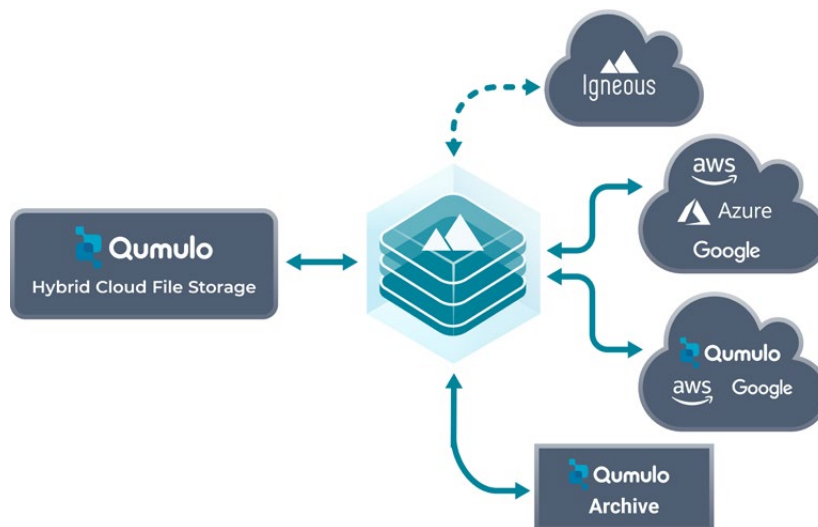
Qumulo's software protects all stored data using erasure coding. This assures superior levels of availability and security protection. Data is protected for the long-term with minimal storage overhead. Qumulo snapshots ensure localized, efficient, and self-service recovery by end users.

With Igneous, data protection is as simple as importing a NAS system and assigning a policy. Igneous dynamically manages the queue of work to protect data to filesystems like Qumulo, or any cloud tier, including archive tiers. Modern recovery through search and simple click-to-restore anywhere gets users productive fast, regardless of scale.

Through Igneous' modern approach to consolidated backup, archive, data movement, and data visibility, its intuitive user interface provides at-a-glance data management. The SaaS delivery model means that Igneous monitors service metrics and handles software maintenance and updates behind the scenes, so that data-centric organizations can deliver comprehensive availability across petabyte-sized data footprints and focus on core business operations.

With Qumulo and Igneous, you can be confident that your data is reliably protected and that your applications are always available.

QUMULO HYBRID CLOUD FILE STORAGE



ABOUT QUMULO

Qumulo's enterprise-proven hybrid cloud file storage delivers real-time visibility, scale and control of data across on-prem and cloud. Qumulo customers can understand storage at a granular level; programmatically configure and manage usage, capacity and performance; and are continuously delighted with new capabilities, 100 percent usable capacity and direct access to experts.

For more information, visit: www.qumulo.com.

ABOUT IGNEOUS

Igneous is the SaaS data management solution for file intensive environments. Data-centric enterprises trust Igneous to provide visibility, protection, and movement at scale. Igneous' API-enabled, cloud-native solution combines all data-management functions, allowing organizations to fully tap the value of their unstructured data while reducing risk and optimizing IT resources. Igneous: The right data, in the right place, at the right time.

Find out more at igneous.io.