

Modern Backup, Archive and Cloud-Tiering for Qumulo File Fabric (QF2)



Modern Data Management Challenges

Enterprises are faced with the challenge that, within their own organizations, data doubles every two to four years. While this growth can also contribute to innovation, new services or general business expansion, these enterprise-transforming benefits come with a new set of data management challenges, like:

- **Billions of Files:** Managing billions of files is hard because it applies a density that seriously stresses the catalogs of legacy data management applications. This is true whether talking about everyday backup and archive or a one-off disaster recovery (DR) situation.
- **Visibility and Insight:** Large data sets make traditional approaches to visibility, such as tree walks, take an unreasonable amount of time. When there are petabytes of data, it can take days to get information about the file system, which means that information is useless.
- **Petabytes of Data:** Billions of files can translate into petabytes (or more) of data. All of this data is incredibly painful for enterprises to store, manage and move. Also, moving this much data strains software that was built for terabytes, not petabytes, of data. Single-threaded protocols, like NDMP, simply take too long to move large amounts of data.

Qumulo QF2 and Igneous Unstructured Data Management Implementation

Igneous provides an Unstructured Data Management as-a-service solution that was designed to handle the scale of Qumulo's modern, universal-scale file system, QF2. Igneous provides native integration for QF2 at an API level, simplifying the tasks of system discovery, snapshotting, and preservation of permissions on file system export. Data protection is as simple as setting a policy on the export. Igneous' data movement engine is optimized to dynamically scale out across the QF2 nodes, thus evenly distributing the backup load without interrupting the applications utilizing QF2. QF2's real-time snapshot comparisons ensure that only changed file regions will be copied.

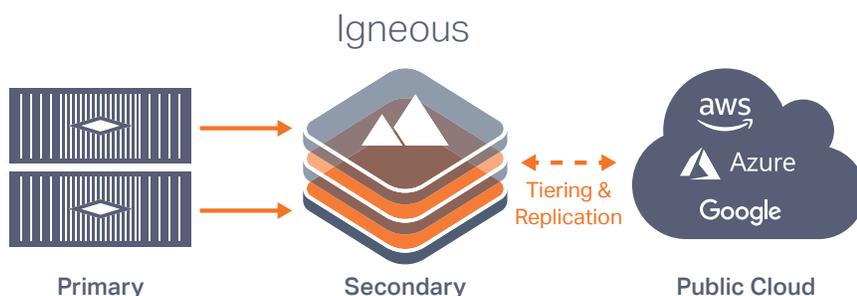
Business Benefits

Business benefits of using QF2 and Igneous Unstructured Data Management as-a-Service solution include:

- Modernized storage portfolio, leveraging powerful software architectures to improve supportability, visibility, analytics, and protection across the primary, secondary, and cloud tiers.
- Scale-out architectures across both performance and capacity tiers for maximum scalability of large datasets.
- Compelling economics, with hard dollar cost savings over traditional vendors.



Qumulo QF2 and Igneous Backup, Archive, and Cloud-Tiering Workflow



Qumulo File Fabric (QF2) Overview

Qumulo File Fabric (QF2) is a modern, highly scalable file storage system that spans the data center and the cloud. It can store billions of files at a lower TCO than legacy storage appliances. QF2 includes powerful real-time analytics and capacity quotas, as well as continuous cross-cluster replication and real-time snapshots. These features are unique to QF2 because the QF2 file system includes a powerful, state-of-the-art data management system that is optimized for the specialized needs of file-based data. A QF2 subscription is comprised of both software and services. The services include support, proactive cloud-based monitoring, and trends analysis. Hardware can be purchased from Qumulo or from HPE.

Igneous DataProtect Overview

Igneous DataProtect simplifies and automates data protection and archive, giving IT teams the ability offer self-serve data protection services across the enterprise. With support for any file and object protocol, any NAS platform, and for any public cloud platform, Igneous DataProtect enables IT and end users to consolidate their data protection and archive operations without vendor lock-in.

Igneous DataProtect is protocol agnostic, centralizing backup and archive data from every NAS instance in the enterprise. Organizations that deploy a mix of NAS architectures can use Igneous to consolidate data from all systems, either onsite, offsite or in the public cloud.

Contact Igneous

To learn more about the Igneous and Qumulo backup, archive and cloud-tiering workflow, contact us:

1-844-IGNEOUS / 206-504-3685 / info@igneous.io



About Qumulo

Qumulo is the leader in universal-scale file storage. Qumulo File Fabric (QF2) gives data-intensive businesses the freedom to store, manage and access file-based data in the data center and on the cloud, at petabyte and global scale. Founded in 2012 by the inventors of scale-out NAS, Qumulo serves the modern file storage and management needs of Global 2000 customers.

For more information, visit www.qumulo.com.



About Igneous

We deliver the only UDM as-a-Service solution enabling data-centric organizations with visibility, protection and data mobility at scale, wherever datasets and workflows live. Our customers see, organize and understand all of their unstructured data – anywhere. Our customers protect petabytes of data on a single cloud-native platform – at scale. Our customers automate movement of datasets – for everyone needing them. We combine all UDM functions into a single, API-enabled, cloud native solution.

The right data, in the right place at the right time.

Find out more at igneous.io