SOLUTION BRIEF

Igneous

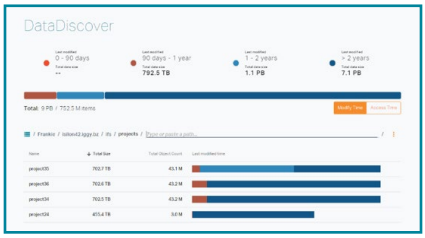
NAS Archive: Igneous to Google Cloud Platform

Reclaiming primary storage and reducing costs at scale

Unstructured data is growing at double-digit rates every year, in every industry. As it drives business growth and revenue opportunities, it also drives enterprise complexity and operating costs. And even if they could afford to keep adding new tier-one NAS capacity indefinitely, most data-centric organizations are already out of data-center space. They need to rein in infrastructure spending and simplify their operations, while they continue to generate and use unstructured data at double-digit rates.

While many of these enterprises are turning to public cloud services, such as Google Cloud Platform (GCP), for their unlimited capacity and predictable costs, that introduces a new set of challenges: how to identify cold data among petabytes of enterprise NAS storage, and how to move it at scale to GCP's Cloud Storage service, and how to restore it easily and reliably if and when it's needed again. In order to be effective and sustainable, all these challenges need to be resolved via frictionless, scalable processes for data owners, administrators, and users alike.

Igneous and Cloud Storage work together to enable a comprehensive strategy for managing cold data, in which cold data can be found, moved, and restored, with as-a-service simplicity even at scale. Igneous simplifies the process of moving data to and from any Cloud Storage region and tier, streamlining operations and reducing the on-premises data footprint – all while delivering ROI savings of 50% or more – and still preserving cold data.



Igneous DataDiscover quickly finds and flags cold data and enables painless archive from anywhere in the enterprise.

How It Works

Part of Igneous' comprehensive unstructured data-management solutions portfolio, Igneous DataDiscover quickly locates inactive datasets wasting valuable space on primary NAS storage. Its high-performance scan engine delivers initial results within minutes, and can scan an entire NAS system – even billions of files – within hours. And since Igneous also interoperates seamlessly with Cloud Storage, data owners can create policies to archive cold datasets to Cloud Storage with a few simple clicks, finding cold data anywhere in the enterprise and presenting it through an intuitive web portal.

GCP's Cloud Storage offers economical, long-term solutions to host your data indefinitely and safeguard it against loss. A software-driven archive solution that leverages the combined features of Igneous and Cloud Storage helps reduce your hardware footprint, free up data-center space and eliminate tape backups entirely, all while lowering costs.

KEY BENEFITS

A data archive strategy that leverages Igneous DataDiscover, Igneous DataProtect and Google Cloud Platform's Cloud Storage, all delivered as-a-Service, offers the following benefits:

File data visibility
Igneous' high-speed scan engine quickly discovers and flags cold datasets anywhere in the enterprise, using customizable filters to match your unique needs.

Archive flexibility
With its intuitive web portal and native integration with any Cloud Storage tier, Igneous offers click-to-archive simplicity to quickly and easily free up primary storage, even at scale.

Restore confidence
Improve business speed and efficiency with a searchable index to quickly find and restore archived files, from any Cloud Storage source to any target, with just a few clicks.

Operational simplicity
With an as-a-Service delivery model, Igneous remotely monitors system performance and service telemetry in customer data centers, letting customers focus on business operations without spending additional administrative cycles to manage and monitor backup, archive, and migration tasks.

Click to Archive Simplicity

With an easily customizable user interface that lets you define 'cold data' on your own terms, you can quickly find stale data anywhere in your enterprise, and then move it quickly and painlessly to Cloud Storage with a few simple clicks.

Vendor-agnostic by design, Igneous is able to access and archive data from every type of NAS platform. Organizations that use a heterogeneous mix of NAS systems can consolidate their archive stores onto Cloud Storage through a single intuitive web portal. Igneous indexes all data as it's archived, making it just as easy to find and restore the data when it's needed.

Cloud Storage Overview

Cloud Storage offers a series of storage tiers, each of which comes with a particular price point that reflects its availability and performance levels.

- **Standard –** for data that is frequently accessed, and/or stored for brief periods of time. Available in multi- and dual-regional configurations.
- **Regional –** provides comparable availability and performance levels as Standard, but in a single-region configuration.
- **Durable Reduced Availability –** similar to Standard storage, but with higher per-transaction costs and lower availability and performance.
- **Nearline –** low-cost, highly durable storage for infrequently accessed data, where higher access and per-transaction fees are offset by lower capacity costs.
- **Coldline –** intended for data that can go for a year or more without being used, with the highest per-transaction costs and lowest consumption costs.

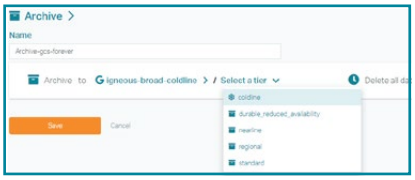
What sets Cloud Storage apart from other services – whose archive and cold-storage classes may require minutes or hours to first-byte access – is the immediate time-to-first-byte availability across all storage tiers.

Igneous includes native support for all Cloud Storage tiers, and can be configured to write directly to any tier by specifying it in the Igneous backup policy. Regardless of which tier is needed for a specific use case, Igneous delivers policy-driven backup services – leveraging both onsite and cloud storage as appropriate – from a single intuitive web portal.

Igneous Archive as-a-Service

Simplify and automate archive operations, even at multi-petabyte scales with billions of files. With native support for any file protocol on any NAS system, and the ability to write directly to Cloud Storage, Igneous DataProtect simplifies archive operations for even the largest enterprises.

Igneous is the only archive solution that includes full API integration with Dell EMC Isilon™, NetApp FAS™, Pure Storage FlashBlade™, and Qumulo QF2™, leveraging each platform's specific capabilities for export and share discovery, snapshot management, file-system security, and data-path management for optimal throughput and backup performance.



Contact Igneous

To learn more about Igneous and about our unstructured data-management solutions, contact us:

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ARCHIVE FEATURES

- Automated archive job management
- Archive datasets at the system, export, or directory level
- Read-only access via NFS to archived data
- Search to restore archived data via direct download, or restore to primary NAS
- Index archived data on ingest

CLOUD-TIERING FEATURES

- Lifecycle management across Igneous and Cloud Storage, enabling version control and expiration of old data
- Direct and native integration with all Cloud Storage tiers
- Efficient movement of data to cloud storage
- Direct-to-cloud archive for software-only Igneous deployments, and as appropriate for hybrid environments
- Search both onsite and cloud-based datasets, with enforced file permissions, to enable self-service restore operations

About Igneous

Igneous delivers the industry's only as-a-Service solution for unstructured data management, giving data-centric enterprises visibility, protection, and data mobility at scale. Igneous' API-enabled, cloud-native solution combines all unstructured data-management functions so that organizations can tap the value of their unstructured data, while reducing risk and optimizing IT resource utilization.

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

Visit igneous.io for more information, and to register for a live demo of Igneous' data management services

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