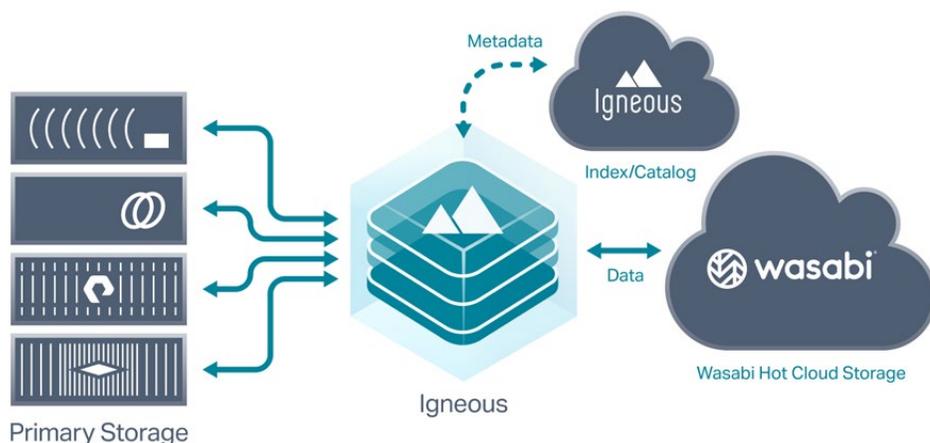




Data Protection with Igneous and Wasabi Hot Cloud Storage

Enterprises who turn to cloud storage for backup capacity are encountering new challenges in predicting their cloud consumption and operating costs. Most public cloud platforms offer a complex set of storage tiers, with separate fees for capacity, data egress, and API access. A backup strategy that uses public cloud storage requires careful planning and analysis to optimize both capacity and cost.



Customers looking to simplify their cloud strategy find that Wasabi Hot Cloud Storage provides high-performance, secure object storage that eliminates the need for hierarchical storage tiers. Wasabi does not charge for data or API access, so customers get high-performance cloud storage without the hidden fees and guesswork of public-cloud storage tiers.

Additionally, Wasabi enables simple, economical cloud-based backups. Enterprises that use Igneous DataProtect to back their file data up to Wasabi Hot Cloud Storage get exabyte-ready data protection along with the predictable scalability of Wasabi cloud capacity. By leveraging DataProtect's seamless interoperability with all NAS platforms and its native integration with Wasabi's cloud storage, data-centric organizations get the best of both onsite and cloud capacity, along with optimal flexibility and cost management.

How It Works

Igneous combines a multi-threaded scan engine, which can discover and index hundreds of thousands of files per second, with a data-movement engine that organizes data into dozens of parallel streams that can use all available network bandwidth between your NAS systems and your cloud storage endpoint(s). Igneous also monitors overall NAS performance and adjusts itself automatically to protect production workloads. The net result is a backup solution that can protect unstructured data at any scale, running 24x7 without affecting business services.

BUSINESS BENEFITS

An unstructured data backup strategy that combines Igneous DataProtect with Wasabi Hot Cloud Storage delivers the following benefits:

Cloud integration at any scale.

Igneous offers simple, transparent cloud integration for both active file data (via backup) and cold file data (via archive). Through Igneous' intuitive web portal that unifies storage platforms, cloud platforms, and file-system protocols to a single management point, organizations can protect millions to billions of files, and terabytes to exabytes of data, with equal ease.

Scale and performance.

Engineered and built for any scale, Igneous can scan and index hundreds of thousands of files per second to identify new and changed data in any size environment. Igneous also delivers line-speed data movement between local and cloud endpoints, enabling effective data protection even at exabyte scale.

As-a-Service simplicity.

Igneous remotely monitors applications in customer data centers, letting customers focus on business operations without spending additional administrative cycles to manage and monitor backup, archive, and migration tasks.

Policy Flexibility for Any Use Case

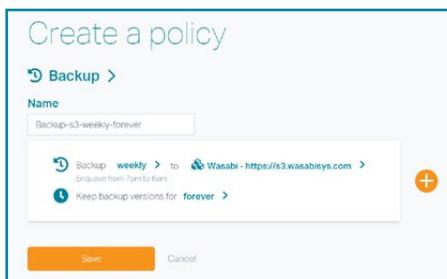
DataProtect lets data owners and administrators create backup policies that leverage Igneous' scalable data protection and Wasabi's bottomless storage capacity to meet any requirement, including:

- **Direct-to-Cloud backup**, using an Igneous virtual machine instance to move backup data directly into Wasabi Hot Cloud Storage with each backup run.
- **Scalable backups**, in which multiple Igneous instances can be added to support any size environment. Each instance can add up to 10Gb/s of throughput for backup traffic.
- **One-time archive**, where data is archived in a single operation to Igneous, then replicated immediately to Wasabi for long-term storage

Wasabi Hot Cloud Storage Overview

Wasabi's full S3 compatibility gives enterprises a target for backup and archive data that works directly with Igneous' native cloud storage interoperability. Its single-tier architecture and lack of access fees for data simplifies both backup and archive strategies, and provides:

- **Always-on storage** with immediate time-to-first-byte access, even for cold data.
- **Data durability** of 11x9s (9.99999999), which corresponds to one file lost per 10,000 years of storage
- **Optional data encryption** at all times, both in transit and at rest
- **Data immutability**, ensuring that data cannot be decrypted, deleted or modified by any method – effectively offering WORM-level protection in the cloud
- **Access-control mechanisms** – including bucket policies and access-control lists – that can be configured to selectively grant permissions to users and groups.



Igneous DataProtect can be configured to write directly to Wasabi by adding the appropriate Wasabi access credentials and target to a backup policy using Igneous' secure, intuitive web portal.

Igneous DataProtect Overview

DataProtect simplifies and automates data protection, even at multi-petabyte scales with billions of files. With native support for any file protocol, for all NAS systems, and for any public cloud platform, DataProtect provides effective backup operations for even the largest enterprises. Even in heterogeneous enterprises with mixed storage, backup operations can be centralized for every NAS platform in the enterprise, with file data from all systems consolidated into a single cloud-based backup repository, based on Wasabi storage.

Only Igneous includes full API integration with Dell EMC Isilon, NetApp, Pure Storage FlashBlade, and Qumulo file storage. Igneous is the only backup solution to leverage each platform's specific capabilities for backup-related snapshot initiation, file-system security, and data-path management to provide optimal throughput and backup performance for every major NAS type.

Delivered as-a-Service, DataProtect simplifies service and platform management. We manage and monitor end-to-end service availability and performance, freeing up organizations and IT staff to focus on core business operations.

About Wasabi

Wasabi changed the cloud storage landscape forever by introducing Hot Cloud Storage, a disruptively simple, one-size-fits-all cloud storage technology that is 1/5th the price and faster than the competition with no additional hidden fees or API call charges. Wasabi is game changing, leading-edge cloud technology that allows users to affordably store an infinite amount of data. Wasabi makes saving data simple, affordable, fast and secure. Wasabi Hot Cloud Storage removes the complicated decision of where, how and whether to save your data, and empowers you to transform your business and organization through cost savings and disruptive speed and performance.

Visit wasabi.com to learn more.

Contact Igneous

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

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

BACKUP FEATURES

- API integration with Dell EMC Isilon, NetApp, Pure Storage FlashBlade, and Qumulo
- Nativesupport for all other NAS systems, including VAST Data™, WekaIO™ Matrix™, IBM™ Spectrum Scale™, Quantum™ Stornext™, Panasas™ ActiveStor™, Hitachi™ HNAS™
- Highly-parallel scan and movement operations without impact to production workloads
- Baseline and then "incremental forever" backups run quickly and efficiently
- "Virtual full" restore interface presents complete view of data at any point in time
- Support for mixed-mode NFS/SMB environments
- Restore back to NAS with all metadata and file permissions intact
- End-to-end compression for throughput and storage efficiency
- Immutable objects with versioning

CLOUD-TIERING FEATURES

- Lifecycle management across Igneous and Wasabi, enabling version control and expiration of old data
- Native interoperability with Wasabi, including data ingress, egress, and multi-site management
- Efficient movement of data to cloud storage
- Replication between Igneous and cloud storage for offsite redundancy
- Search both onsite and cloud-based datasets, with enforced file permissions, to enable self-service restore operations

About Igneous

Igneous is the SaaS data-management solution for file-intensive environments. 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: Petabytes today, exabytes tomorrow.

Find out more at igneous.io