



Modernize Your NAS Backups with Igneous DataProtect and Cloudian Storage

Cost-effective Data Protection at Petabyte Scale

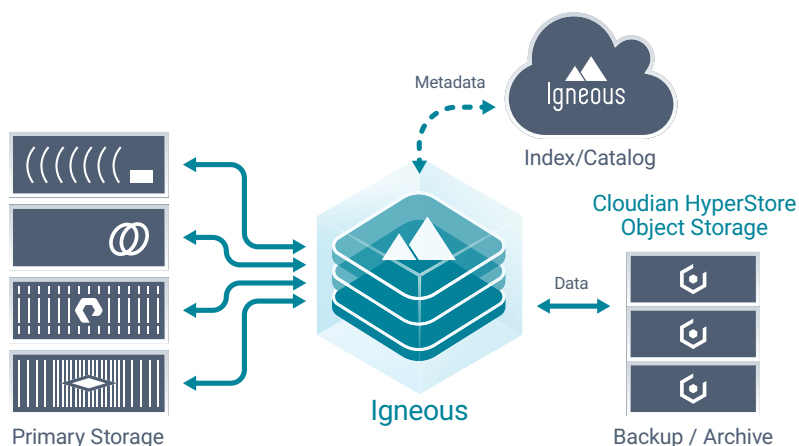
In every industry, data-centric organizations are dealing with ongoing changes that drive innovation, create new revenue sources, and expand business opportunities, but which are also disrupting business as usual. For many enterprises, the volume of data being created and modified every day in the modern economy goes far beyond what legacy tools like NDMP and disk-to-disk backups can support. Some of these organizations are increasingly turning to the public cloud for capacity, but many enterprises continue to rely on local storage for their backup services.

Customers with stringent RTO and RPO requirements need powerful, scalable on-premises storage to protect their petabyte-scale environments. They also need a powerful, high-performance backup solution that can protect the billions of files that are created and changed every day.

Scalably Simple with Igneous and Cloudian

Igneous offers comprehensive backup services that were engineered for today's rates of data creation and change, with Igneous DataProtect providing backup and archive services and Igneous DataDiscover delivering data visibility. Both solutions were specifically designed to support today's massive amounts of unstructured data.

Cloudian HyperStore provides on-premises S3-compatible enterprise storage that seamlessly scales to exabyte size. Customers can deploy Cloudian software on their own industry-standard systems or use Cloudian's engineered appliances for a scalable, modular architecture that offers storage densities up to 1.5PB in a single 4U chassis. Cloudian HyperStore Object Storage is the perfect on-premises solution for enterprises that need dense local backup capacity for their massive unstructured data portfolios.



BUSINESS BENEFITS

An unstructured data backup strategy that combines Igneous DataProtect with Cloudian HyperStore Object Storage delivers the following benefits:

Consolidated local backup at any scale. Igneous and Cloudian can fully protect unstructured data from any NAS system, eliminating the complexity of NDMP and the cost of vendor-based disk-to-disk solutions. Enterprises can combine Igneous' high-speed data movement and universal NAS compatibility with Cloudian's high-performance local storage to protect billions of files and petabytes of data from a single, intuitive management point.

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 to Cloudian storage, enabling effective data protection even at exabyte scale.

SaaS-level 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.

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 NAS systems and Cloudian HyperStore. Igneous also monitors overall NAS performance and adjusts its activity 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.

Cloudian HyperStore Object Storage Overview

Cloudian HyperStore's S3-object storage enables cost-effective, on-premises backup and archive at scale. Simple to deploy and configure, HyperStore delivers backup and archive at up to 70% less cost than NAS-based solutions and 30% less than tape. Highly available and resilient with no single point of failure, every Cloudian HyperStore cluster offers non-disruptive scalability to exabyte-plus size, with throughput and performance increasing as your cluster expands. Customers can even manage their own erasure-coding and encryption settings for added data durability and security.

DataProtect Overview

Between DataDiscover's ability to find and present cold data at scale, and DataProtect's high-performance data movement, Igneous simplifies and automates archive operations, even at multi-petabyte scale with billions of files, for even the largest enterprises.

Igneous is the only archive solution that includes full API integration with Dell EMC Isilon, NetApp, Pure Storage FlashBlade, and Qumulo file storage, leveraging each platform's specific capabilities to manage backup-related snapshot initiation, file-system security, and data-path optimization for maximum throughput and performance.

Delivered as-a-Service, Igneous also simplifies service and platform management. We manage and monitor overall service availability and performance, freeing up organizations and IT staff to focus on core business services.

About Cloudian

Cloudian is a Silicon Valley-based file and object storage company specializing in S3-compatible object storage systems. With technology roots in the large-scale enterprise message space, Cloudian introduced its object-based platform, HyperStore, in response to explosive growth rates in unstructured data. Across all industries – from media, to medical, to industrial – new applications, formats, and technologies are driving this rapid increase of data, creating issues around storage costs and complexity. Today's enterprises and service providers alike are building reliable, affordable, and scalable storage solutions with Cloudian, the leading fully native S3 file and object storage solution.

Visit cloudian.com to learn more.

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

POLICY FLEXIBILITY FOR ANY USE CASE

With DataProtect, data owners and administrators create backup policies that leverage Igneous' scalable data protection and Cloudian's dense on-premises storage capacity to meet any requirement, including:

- **Deployment and backup flexibility**, letting enterprises use Igneous' software-only capabilities to back up data from any NAS source to any Cloudian target – even across geographically dispersed locations.
- **Multi-point backups**, in which Igneous can be configured to use local Cloudian storage for RTO/RPO performance, while simultaneously using public-cloud storage capacity for added protection against site-level data loss.
- **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**, letting administrators retire data permanently from primary storage with a few simple clicks.

BACKUP FEATURES

- API integration with Dell EMC Isilon, NetApp, Pure Storage FlashBlade, and Qumulo File System
- Native support for NFS, SMB, and all other NAS systems, including VAST Data™, WekaIO™ Matrix™, IBM™ Spectrum Scale™, Quantum™ StorNext™, Panasas™ ActiveStor™, Hitachi™ HNAS™
- Support for mixed-mode NFS/SMB environments
- 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
- Restore back to NAS with all metadata and file permissions intact
- End-to-end compression for throughput and storage efficiency
- Immutable objects with versioning
- Comprehensive activity logging and audit trails

Contact Igneous

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

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