



NAS Archive: Igneous to Amazon Web Services

Reduce on-premises NAS costs with cloud-based storage

Data is taking over the modern economy, driving innovation and creating new revenue sources. At the same time, it also drives infrastructure complexity, storage consumption, and operational costs. Data-driven organizations in every industry are seeing the same set of problems: NAS systems are out of space; data centers are out of room, and operational costs are rising.

To offset these challenges, enterprises are increasingly turning to cloud storage platforms, such as Simple Storage Services (S3) from Amazon Web Services (AWS). But how do you identify candidate data for archive; how do you move it at scale into AWS storage, and then how do you restore it when needed? Lastly, how do you keep it from consuming your entire data-management budget? You need a simple, frictionless process that makes it easy for users and administrators alike, and that helps control costs at the same time.

Igneous and AWS together enable a comprehensive strategy for managing cold data, making it easy to see, easy to move, and easy to restore – even at scale – and all with as-a-service simplicity. Offering an ROI savings of 50% or greater compared with legacy solutions like tape or hierarchical storage management, Igneous simplifies the process of moving data to any AWS S3 service – including direct access to Glacier Deep Archive – streamlining operations and allowing you to reduce the data-center footprint while 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 that are 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. DataDiscover quickly finds cold data anywhere in the enterprise and offers click-to-archive simplicity through its flexible, intuitive web portal.

AWS S3 storage tiers offer economical, long-term solutions to host your data indefinitely and to safeguard it against loss. A software-driven archive solution that leverages the combined features of Igneous and AWS can help reduce your hardware footprint, freeing up data-center space and eliminating tape backups entirely, all while lowering costs.

KEY BENEFITS

A data-archive strategy that leverages Igneous DataDiscover, Igneous DataProtect and Amazon S3 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 interoperability with any AWS 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 AWS S3 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.

Flexibility and Choice with AWS Simple Storage Service

AWS offers a wide range of storage classes, with each class providing a specific combination of availability, accessibility, performance, and capacity at a particular price point. For enterprises looking to integrate cloud storage into their enterprise operations, AWS offers maximum flexibility at a global level, with set-it-and-forget-it simplicity.

- **Standard**, providing durable, high-performance-low-latency storage for frequently-accessed data
- **Standard – Infrequent Access**, providing comparable availability and performance, but for infrequently-used data
- **One Zone – Infrequent Access**, which offers similar availability and performance to S3 Standard-IA without the additional availability zones
- **Glacier**, used for data that will be rarely needed once uploaded and can be stored offline until needed, with configurable time-to-first-byte options that can range from minutes to hours
- **Glacier Deep Archive**, which supports long-term retention and preservation of data that may only be needed once or twice per year, with up to 12 hours' time-to-first-byte access.

Igneous includes native support for all AWS storage tiers, and can be configured to write directly to any tier by specifying it in the Igneous archive policy. Regardless of which tier is needed for a specific use case, Igneous simplifies archive management and seamlessly integrates the capacity and economics of AWS storage into any enterprise.

As-a-Service Simplicity with Igneous

Simplify and streamline 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 any AWS S3 storage class such – including IA, Glacier, and Glacier Deep Archive – Igneous DataProtect simplifies archive operations for even the largest enterprises.



Intuitive archive policies let you move data directly to any AWS storage tier.

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.

Powerful Archive at Scale

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 AWS with a few simple clicks.



Once identified, cold data can be moved to AWS with Igneous' simple click-to-archive feature.

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 AWS from a single management point.

ARCHIVE FEATURES

- Single-click archive 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 AWS, enabling version control and expiration of old data
- Direct and native integration with all AWS S3 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

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

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2401 Fourth Ave, Suite 200, Seattle, WA 98121, USA / 1-844-IGNEOUS / www.igneous.io

