



# Igneous DataProtect

Simplified, automated, efficient backup, recovery and archive gives you Protection as-a-Service across your entire enterprise

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.

Igneous is the only backup and archive solution that includes full API integration with Dell EMC Isilon, NetApp, Pure Storage FlashBlade, and Qumulo QF2 storage.

Capable of delivering data scan-and-compare rates of over 419,000 files/second per job, data-movement rates of over 21,000 files/second per job, throughput starting at 1.2GB/second for a basic configuration, and scalable to hundreds of concurrent jobs to meet the needs of even the largest enterprises, Igneous DataProtect outpaces competitors in both the volume and handling performance of managed unstructured data.

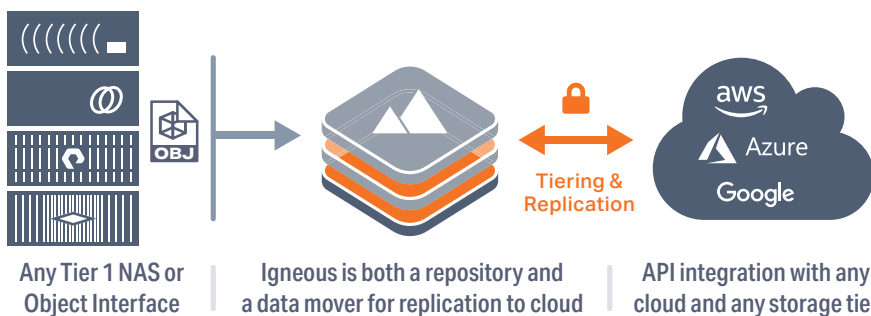
## What We Provide

**Backup** – Highly parallel, policy-driven backup for network attached storage minimizes impact on your primary tier while eliminating backup windows.

**Archive** – Intuitive dataset discovery through search or browse, and simplified archive workflow creates a highly scalable archive solution.

**Cloud-tiering** – Automated, policy-based uploads from Igneous to any public cloud platform, with data movement triggers and timing based on settings that you define.

**As-a-Service monitoring and management** – Our remote management platform handles all monitoring, diagnostics, failure management, and software updates. We take care of the logistics so you can focus on your business.



## KEY BENEFITS

### As-a-Service delivery

Customers don't buy or manage hardware; instead, Igneous remotely monitors, troubleshoots, and even performs software updates on its appliances installed in customer datacenters. Igneous' remote management and fail-in-place architecture dramatically reduce management overhead for enterprise IT.

### Scale-out

On-premises appliances integrate highly scalable backup and archive software with scale-out index and object stores to manage billions of files.

### High performance

Igneous performs highly parallel data movement, optimized for scale-out primary NAS systems from NetApp, Dell EMC Isilon, Pure Storage FlashBlade, Qumulo, and others. Dynamic throttling eliminates impact to users and applications accessing the primary storage. As such, backups can run continuously, eliminating the concept of a "backup window" where users and applications can't otherwise access data.

### Search

A key problem with enterprise network attached storage (NAS) is not knowing what's there. The Igneous scale-out index store provides integrated search and discovery of all file data on primary, secondary, and cloud storage tiers.

### Cloud integration

To constrain datacenter footprint and provide long-term archive storage, Igneous automates tiering or replication to other Igneous appliances and to leading public cloud providers like AWS, Microsoft Azure, and Google Cloud.

## Integrated Solution

- Built-in scale-out backup, archive, and cloud-tiering services that integrate with existing NAS vendors and customer-provided public cloud accounts (Amazon Web Services, Microsoft Azure, Google Cloud Platform)
- Igneous' exclusive AdaptiveSCAN™, InfiniteINDEX™, and IntelliMOVE™ technologies provide a highly scalable, unstructured data protection solution that is purpose built for scanning, indexing, and moving petabytes of unstructured data
- Integral index-and-search capabilities to locate data quickly anywhere in the enterprise, both onsite and in the public cloud
- Igneous' remote management service provides platform monitoring, troubleshooting, and software updates
- Fail-in-place platform architecture enables continuous uptime and nonstop protection
- Non-disruptive system updates run without service interruption
- API-driven architecture for use with custom and third party applications (S3 API supported for direct access to underlying object storage)

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## Backup Features

- API integration with NetApp (7 Mode and Cluster Mode), Dell EMC Isilon, Pure Storage FlashBlade, and Qumulo QF2 to provide:
  - Read-consistency via snapshots
  - Automated permissions provisioning
  - Automatic discovery of exports
- Support other NAS systems (IBM Spectrum, HP StoreEasy, Panasas PanFS, Quantum StorNext and Pixit PixStor) through standard NFS, SMB, and object protocol support
- Multi-protocol permission recognition in mixed-mode storage environments
- Dynamic resource throttling via latency aware data-movement to protect production system performance
- Highly parallel data movement and scan operations
- Point-and-click policy-driven backups
- Baseline and then Incremental Forever backups run more quickly and efficiently
- "Virtual Full" restore interface presents complete view of data at any point in time
- Search to recover backup data via direct download, or restore to primary NAS
- Restore back to NAS with all metadata and file permissions intact
- Write-Once Read-Many (WORM)
- End-to-end compression for throughput and storage efficiency
- Immutable objects with versioning
- Comprehensive activity logging and audit trails
- Replication to other Igneous systems and cloud storage for off-site redundancy

## Archive Features

- Automated archiving job management
- Archive data at the system, export, or directory level
- Automated notification upon job completion
- Archive to Igneous and cloud storage locations
- 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 locations allows for expiration by date or number of versions
- Cloud storage integration with Amazon Web Services, Microsoft Azure Blob Storage, and Google Cloud Platform
- Efficient data movement to cloud storage
- Replication between Igneous and cloud storage locations for off-site redundancy
- Search the Igneous InfiniteINDEX to restore with enforced file permissions to restore with enforced file permissions

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## 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](https://igneous.io)