

Igneous Data Protection as-a-Service

Cloud-based backup and archive for unstructured data

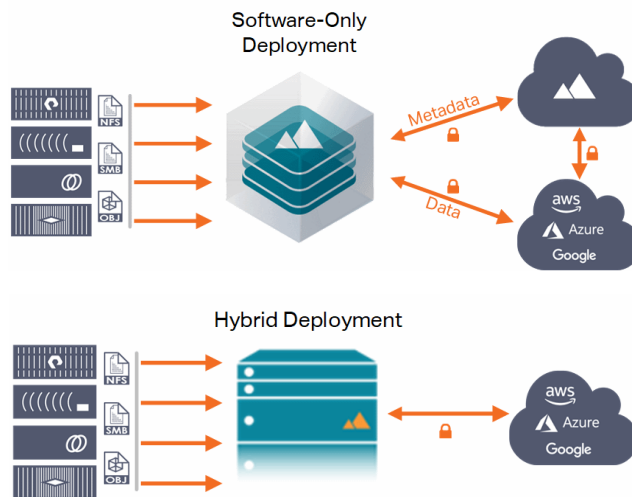
Igneous DataProtect offers a comprehensive, easy-to-use data-protection platform that delivers efficient, highly scalable enterprise backup and archive services for unstructured file data. Engineered to move data at line speed without impacting production workloads, DataProtect is built for the scale of the enterprise, capable of managing billions of files, and exabytes of data as easily as protects terabyte-scale environments.

With a proven record of simplifying data protection at scale, DataProtect provides full integration with all major NAS platforms, and native support for all file-access protocols. DataProtect is also the only backup and archive solution that includes full API integration with Dell EMC Isilon™, NetApp FAS™, Pure Storage FlashBlade™, and Qumulo QF2™ storage.

As with all Igneous services, DataProtect offers deployment flexibility via dedicated hardware in the datacenter, or as a software-only virtual machine, or using a hybrid model that leverages elements of both.

Backup and archive data can be stored on-premises or sent directly to any public-cloud storage tier. No matter where data needs to be stored, or how services need to be deployed, Igneous can deliver.

Igneous has consistently shown how its as-a-Service model simplifies data protection, anywhere and at scale, eliminating entirely the need to manage hardware or software.



What We Provide

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

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

Cloud-based data protection and tiering – Automated, policy-based backup and archive operations from Igneous directly to any public cloud platform, with tiers and timing based on policy 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

Igneous remotely monitors service availability and performance, along with troubleshooting and software updates on Igneous customer deployments. Igneous' remote management and fail-in-place architecture dramatically reduce management overhead for enterprise IT.

Cloud integration

Igneous enables full data protection and archive capabilities, even with a limited on-premises infrastructure footprint. At scale, Igneous can use public-cloud storage from AWS S3, Microsoft Azure Blob Storage, and Google Cloud Storage for all backup and archive capacity.

Deployment flexibility

Customers can choose between on-premises hardware that includes local storage with replication to the cloud, or a virtual-only deployment that uses cloud capacity exclusively. Both deployment options offers the unlimited capacity and agility of cloud storage while supporting scale-out indexing of billions of files and unlimited backup/archive capacity.

High performance

Igneous performs highly parallel data movement, optimized for scale-out primary NAS systems. Dynamic throttling eliminates impact to users and applications accessing the primary storage, meaning backups can run continuously, eliminating "backup windows" in which data goes offline. Igneous enables both 24x7 data protection and 24x7 data availability.

Search

A key problem with enterprise NAS at scale 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.

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™ engines provide a scalable unstructured data protection solution capable of scanning, indexing, moving and protecting petabytes of unstructured data
- Integral index-and-search capabilities can 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)

Backup Features

- API integration with NetApp FAS (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 for all 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 at the system, export, or directory level
- 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
- Full use of cloud capacity for backup and archive in virtual-only Igneous deployments

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 at the system, export, or directory level
- 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

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://www.igneous.io)

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