



Modern Backup and Archive for Pure Storage FlashBlade™



Modern Data Management Challenges

Enterprises are faced with the challenge that, within their own organizations, the quantity of data stored by the enterprise typically doubles every two to four years. While this growth in data can also contribute to innovation, new services or general business expansion, these enterprise-transforming benefits come with new set of data management challenges, like:

- **Billions of Files:** Managing vast quantities of files is hard because it applies a density that significantly stresses the catalogs of legacy data management applications. This is true both in the context of everyday backup and archive or a one-off disaster recovery (DR) situation.
- **Hundreds of File Systems:** As the number of files grows, so does the number of file systems — and billions of files often require hundreds of file systems. Whether backing up to tape or to disk (D2D), this enterprise data growth often requires too many independent silos to manage effectively or efficiently.
- **Petabytes of Data:** Billions of files can translate into petabytes (or more) of data. This quantity of data is incredibly burdensome for enterprises to store, manage and move. Also, moving this much data strains legacy software that was built for terabytes, not petabytes, of data. Single-threaded protocols, like NDMP, simply take too long to move large amounts of data.

Enterprises are in need of not only increased storage capacity to address this unrelenting growth, but also applications built to handle the challenges and bandwidth requirements of modern data management.

Pure Storage FlashBlade™ Overview

FlashBlade is the industry's first cloud-era flash purpose-built for modern analytics, delivering unprecedented performance for big data applications. Its massively distributed architecture enables consistent performance for all analytics applications using NFS, S3/Object, SMB, and HTTP protocols. FlashBlade is as simple as it is powerful, and all driven by Purity//FB.

FlashBlade is built on scale-out metadata architecture, capable of handling tens of billions of files and objects while delivering maximum performance. Storage services at every layer are elastic, thanks to the distributed transaction database built into the core of Purity for FlashBlade. As with Pure's block-based FlashArray//X storage, Purity//FB for FlashBlade provides global flash management and effortless scale for file and object storage: Simply adding additional blades grows system capacity and performance, instantly.

Business Benefits

Business benefits of using Pure Storage FlashBlade and Igneous Unstructured Data Management as-a-Service solution include:

- Optimized storage portfolio, meaning that the best latency performance is on the primary tier and the best throughput performance is on the capacity tier.
- Scale-out architectures across both performance and capacity tiers for maximum scalability of large datasets.
- Compelling economics, with built-in compression on storage across tiers, feature-rich platforms without add-on license fees, and better service and supportability offerings than traditional vendors.



Igneous DataProtect Overview

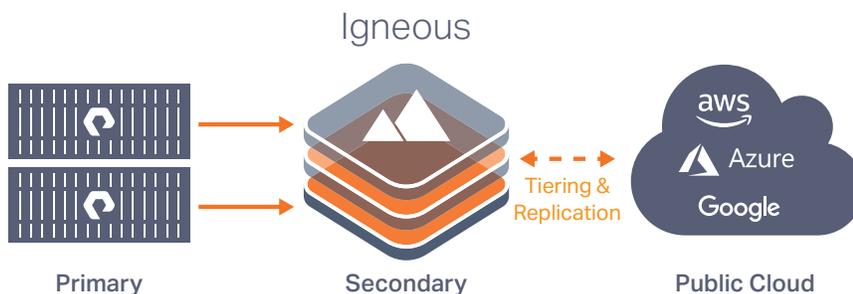
Igneous DataProtect simplifies and automates data protection and archive, giving IT teams the ability offer self-serve data protection services across the enterprise. With support for any file and object protocol, any NAS platform, and for any public cloud platform, Igneous DataProtect enables IT and 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.

FlashBlade and Igneous Backup Implementation

Igneous provides an Unstructured Data Management as-a-service solution that was designed to handle the dense and fast file workload targeted to Pure's FlashBlade. Igneous provides native integration for Pure Storage FlashBlade at an API level, simplifying the tasks of system discovery, snapshotting, and preservation of permissions on file system export. Data protection is as simple as setting a policy on the export. Igneous' data movement engine is optimized to dynamically scale out across the FlashBlade storage blades thus evenly distributing the backup load without interrupting the applications utilizing FlashBlade.

Igneous and Pure Storage Backup and Archive Workflow



Contact Igneous and Pure Storage

To learn more about the Igneous and Pure Storage backup and archive workflow, contact us:

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About Pure Storage

Pure Storage (NYSE:PSTG) helps customers build a better world with data. The Pure Storage Data Platform, powered by all-flash storage, offers a simpler, more effective, and more flexible solution for cloud infrastructure and data-rich applications like artificial intelligence, machine learning and big data analytics. With Satmetrix-certified NPS performance in the top 1% of B2B companies, Pure has an ever-expanding range of customers who are some of the happiest in the world.

For more information, visit www.purestorage.com.



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