



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 Hybrid Storage Cloud 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 Hybrid Storage Cloud Overview

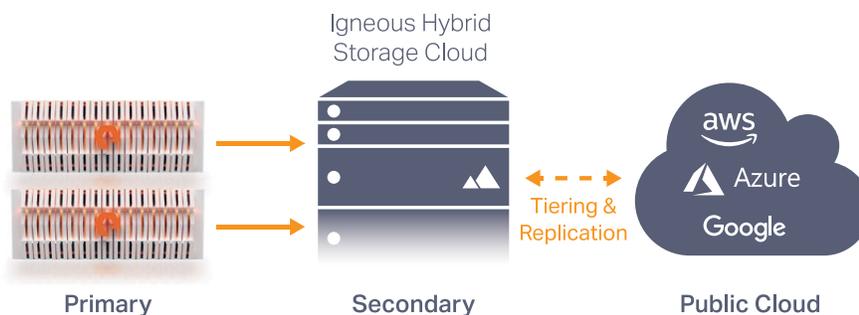
Igneous Hybrid Storage Cloud offers a modern approach to consolidated backup and archive. Built to handle billions of files, hundreds of file systems, and petabytes of data, Igneous Hybrid Storage Cloud provides data management for unstructured file data, delivered as-a-Service. Utilizing cloud services and on-premises infrastructure designed for data-centric computing, Igneous delivers the industry's first secondary storage solution for massive file systems that offers both the convenience of storing data in your datacenter and the option to tier to cloud.

Igneous Hybrid Storage Cloud eliminates the challenge of managing disparate backup software, disk-to-disk (D2D) replication, and tape archives. While maintenance, updates, and troubleshooting are handled by Igneous through our Remote Management Platform, full usage metrics and activity notifications ensure that you have the system visibility you need.

FlashBlade and Igneous Backup Implementation

Igneous provides a scale-out secondary storage solution that was designed to handle the dense and fast file workload targeted to Pure's FlashBlade. Igneous Hybrid Storage Cloud 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 Systems and Pure Storage Backup and Archive Workflow



Contact Igneous and Pure Storage

To learn more about the Igneous Systems 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.



About Igneous Systems

Igneous Systems delivers the first backup and archive solution for massive unstructured data. Designed for a hybrid world, Igneous' solution serves digital enterprises whose data is growing both on-premises and in cloud. Igneous Hybrid Storage Cloud streamlines data management, providing data protection, movement, learning, and search and discovery for enterprises with billions of files and petabytes of data on network-attached storage. Delivered as-a-Service, Igneous Hybrid Storage Cloud brings the agility of cloud to customer datacenters. Igneous' customers include leading Fortune 500 and Global 2000 enterprises. Gartner recognized Igneous as a "Cool Vendor in Storage Technologies" in 2017.