SOLUTION BRIEF

Unified Fast File and Object Storage

Satisfy the demands of modern applications and unstructured data with a flexible, unified platform.

Uncomplicated data storage is essential for accelerating discovery, insight, innovation, and time to market. But, complex legacy storage systems are slow, rigid, and limit data sharing, preventing organizations from innovating with their data. Modern organizations need a single platform for consolidating their application and data workloads that is designed with simplicity in mind, integrates with new and existing infrastructure, and delivers multi-dimensional performance.

Evolving File and Object Data Landscape

Unstructured data has existed for decades in the form of file shares and content repositories. Even as recently as a decade ago, file and object data was typically human-generated. Enterprise storage systems had to store this data efficiently and permit multiple networked computers to access this shared unstructured data.

However, modern applications have transformed unstructured data. Today's data is born-digital, multimodal, geo-distributed, and always in motion. This data is often the result of machines generating and analyzing data. The rise of digital transformation and the trends around the Internet of Things, artificial intelligence and machine learning, autonomous driving, fraud detection, and more have led to an exponential rise in unstructured data in the form of billions of files and objects.

More than 80% of all data will be unstructured in the next three to four years by some estimates. Meanwhile, file and object data requirements are likely to triple in that time.

Unified fast file and object storage (UFFO) is a single, unified storage platform optimized for data that spans capacity-optimized and performance-optimized file and object workloads.

Traditional storage technologies cannot cope with the scale and demands of modern file and object workloads. Attempting to support modern file and object data with legacy architectures has caused a proliferation of unstructured storage silos in data centers, with each silo optimized for a specific workload. These architectures are rigid, complex, challenging to manage, limit data sharing, and cause stranded capacity.

Simplicity

Improve IT productivity with simple, non-disruptive operations and achieve cloud-like agility and operational simplicity.

Performance

Deliver outstanding performance across any file and object workloads to enable modern applications at the speed of business.

Consolidation

Eliminate silos and consolidate data and applications onto a single evergreen platform, improving ROI and protecting your investment.

The key characteristics of a UFFO storage platform include:

- **Multi-dimensional Performance:** Delivers high throughput and high performance for any file and object workloads irrespective of file size, object count, and processing type.
- **Multi-protocol Support:** Provides file and object protocol support natively—including NFS, SMB, and S3—without compromising performance or functionality.
- **Intelligent Architecture:** Built from the ground up to truly leverage the performance and efficiencies of flash. Platform simplicity enables you to deploy, manage, and upgrade without requiring constant tuning and disruptive upgrades.
- **Cloud-ready:** Combines the best of on-premises and the cloud, delivering cloud-like agility, flexibility, and consumption choices with the control of on-prem.
- **Dynamic Scalability:** Seamlessly scales capacity, performance, metadata, and up to billions of files and objects to meet modern applications' needs.
- **Always Available:** Delivers high availability over multiple years and upgrade scenarios in addition to the traditional platform resiliency.

FlashBlade: The Leading UFFO Storage Platform

FlashBlade® from Pure Storage® is the industry's leading UFFO storage platform and delivers the simplicity you need to improve IT productivity. FlashBlade provides multi-dimensional performance for faster time to outcomes. Its scalability enables you to consolidate critical unstructured data workloads to help eliminate inefficient legacy storage silos. FlashBlade's UFFO storage platform powers diverse modern workloads such as analytics, AI, high-performance computing, and modern data protection with rapid restore and ransomware. Architected from the ground up for flash to capitalize on modern and next-generation data, FlashBlade UFFO can uncomplicate data storage for organizations with any workloads: from analytics and AI to high-performance computing and forward thinking data protection with rapid restore and ransomware.

Additional Resources

Find out more about FlashBlade and unified fast file and object (UFFO) storage.

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