Panzura CloudFS™

Bring your data under control.

Consolidate storage by aggregating unstructured data into a single, authoritative data in the cloud or on-premises. Eliminate data silos and multiple Windows file shares, reduce unstructured data volume, and optimize storage costs.

Boost productivity with a high performance, globally accessible file environment that allows distributed teams to work with the same speed and efficiency as if they were all under one roof, avoiding file collisions, regardless of location.

Fortify resilience with data that's impervious to ransomware and malware attacks. Protect critical organizational data from cyber threats, maintain business continuity, reduce the risk of costly incidents, and ensure regulatory compliance.

Panzura CloudFS — the heart of the hybrid cloud file services platform — is a distributed global file system incorporating network acceleration technology, specifically designed to accommodate on-premises or cloud object stores, and able to overcome the latency limitations preventing organizations from successfully integrating cloud storage into their infrastructure. The result is a multi-cloud file services platform that enables high performance tiered NAS, global file collaboration, ransomware resilience, active archiving, backup, and disaster recovery across all an organization's corporate locations, and remote users.
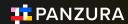

High Performance Global File System

The file system dynamically coordinates where files get stored, what gets sent to the cloud, who has edit and access rights, which files get locally cached for improved performance, and how data, metadata, and snapshots are managed.

CloudFS is uniquely designed to ensure immediate data integrity across all sites within the file system, regardless of the number of sites, number of users, and how far apart they are.

Intelligent Caching at the Edge for Local-Feeling Performance

Panzura CloudFS utilizes a user-definable percentage of the local storage as the SmartCache to intelligently track hot, warm, and cold file block structures as they are accessed. This form of caching dramatically increases the I/O performance of reads (and reduces cloud object storage access charges) by servicing them from local cached storage (both in memory and on persistent local flash) rather than from external cloud storage.

Global File Locking and Real-Time Global File Consistency

Panzura is the only global file system with real-time data consistency across all sites. That is, any user opening a file for editing will see the most recent saved changes, regardless of where those changes were made. Our patented file locking process plays a crucial role in this process. Global file locking is at the heart of allowing geographically distributed users to work collaboratively, without overwriting each other or creating multiple file versions.

Global Deduplication

Panzura's interconnected global file system stops file-level duplication before data gets synced to the object store. Since only unique copies of files across all sites are preserved by the file system, data is deduplicated before it is ever stored. This greatly improves performance and optimizes storage volumes, as no superfluous data is sent to the back-end object store.

Resilience to Ransomware

Panzura makes data impervious to ransomware by storing it in an immutable form (Write Once, Read Many) and further protecting it with immutable snapshots that deliver a global recovery point objective of 60 seconds or less.

Military-Grade Encryption and Regulatory Compliance

Each Panzura node applies AES-256-CBC encryption for all data at rest in the object store. In addition, all data transmitted to or from the cloud is encrypted with TLS v1.3 while in flight. The solution is FIPS 140-3 certified.

Cloud Mirroring for Ultra High Availability

Cloud mirroring will automatically failover to a redundant cloud storage provider in the case of a failure of the primary provider without disrupting any front-end file services for systems or users.

Learn More

For a more in depth look into these CloudFS features, download our [technical whitepaper](#).

To get a demo or talk to a Panzura representative, [contact sales](#).