Panzura CloudFS™

Immutable global file system.

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

Create a High Performance File Environment

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

CloudFS is singularly designed to deliver immediate data integrity across all locations, to all users. This effectively enables distributed teams to work collaboratively at the speed of thought, regardless of the number of office locations, in-office and remote users, and the distance that separates them.

Local-Feeling Performance with Intelligent Caching at the Edge

Panzura CloudFS has a unique hub, spoke, and mesh architecture that enables organizations to use cloud or other object storage as a high performance data center. Virtual nodes enable local-feeling file operations by servicing them from local cached storage rather than from external cloud storage.

Break Boundaries with Immediate Data Delivery

CloudFS is the only global file system with real-time data consistency across all sites, globally. That is, any user opening a file for editing will see the most recent saved changes, regardless of where and when those changes were made.

Maintain Impeccable Data Integrity

Patented file and range locking capabilities enable geographically distributed users to work collaboratively on file stored on a network drive. Real-time exchange of metadata between sites facilitates seamless co-authoring without collisions or creating multiple file versions, even working the most challenging and latency-affected applications and file types.

Reduce Storage Volumes with Global Deduplication

Panzura's interconnected file system translates files into blocks and separates metadata from file data, creating metadata pointers to record the blocks that comprise every file. Then, CloudFS stops block-level duplication before data gets synced to the object store. CloudFS moves the smallest amount of data over the shortest possible distance, which greatly improves performance, optimizes storage volumes, and accelerates recovery in the event that data needs to be restored.

Become Resilient to Ransomware and Damage

Panzura makes data impervious to ransomware and other data damage by storing it in an immutable form (Write Once, Read Many) in your chosen object store and further protecting it with immutable snapshots. These provide superior resilience and recovery capabilities with a global recovery point objective of 60 seconds or less. CloudFS also integrates with Windows Previous Version, allowing users to restore their own files without IT intervention.

Military-Grade Encryption and Regulatory Compliance

CloudFS assures data security with AES-256-CBC encryption for data at rest in the object store and TLS v1.3 encryption for data in flight. The solution is FIPS 140-3 certified.

Cloud Mirroring for Ultra High Availability

CloudFS enables business continuity even if primary cloud storage becomes unavailable. Cloud mirroring automatically fails over to redundant configured storage without disrupting any front-end file services for systems or users.

Learn More

Read the CloudFS technical whitepaper.

Explore proactive detection with Detect and Rescue.

Talk to our sales team.