

Technical Data

- Consolidation of petabytes of data
- High performance in a single global namespace
- Provides cloud storage
- Automated, integrated tiered storage and information lifecycle management
- Self-managing, automated, policy-driven tiered storage
- Modular design for high performance, scalability, availability, and flexibility
- Integrated file versioning

IBM Fast File system GPFS & HMK Storage Management Suite



GPFS ist the most performant file system to manage and store massive amounts of data in the petabyte age. It enables applications and services to be uncoupled from the underlying infrastructure.

Summary

Innovative IT applications in business analytics, digital media, medical data and cloud storage are creating requirements for data access rates and response times to individual files that were previously unique to high-performance computing environments - and all of this is driving a continuing explosion of business data.

Scale Out Storage

Addresses the new storage challenges posed by the continuing explosion of data. IBM's flagship General Parallel File System is an easy-to-install, turnkey solution that provides the performance, clustered scalability, high availability and functionality that are essential to meet strategic Petabyte Age and cloud storage requirements.

Consolidating storage to improve efficiencies

Helps to consolidate and manage data affordably, reduce crowded floor space, and reduce management expenses. A global namespace that scales to extreme amounts of data, from terabytes to petabytes. Centralized management, provisioning, control, and automated information life-cycle management (ILM) are integrated as standard features. It is a globally clustered file system built upon IBM GPFS.

Providing infrastructure for cloud storage

The dynamic scale out capability, centralized deployment and management, security, and service elasticity is necessary to meet today's cloud storage requirements. At petabyte scale, applications and services are uncoupled from the underlying storage infrastructure.

Centrally managed, centrally deployed

The global cluster provides intelligent load balancing, dynamic thin provisioning, geographical distribution, performance optimization and advanced replication.

Automated, integrated tiered storage and information life-cycle management

When file systems grow from terabytes to petabytes, backup and archive becomes complex, expensive and slow because of the large amount of data that must be scanned to identify what must be backed up.

- Automated, integrated policy driven ILM and hierarchical storage management built in
- ILM global namespace in logical storage pools
- Centrally provision storage nearly on a quota basis, user, group or location
- ILM is performed at the individual file level, thus optimizing storage
- Physical data movement between pools
- Integrated Backup and file versioning

Leveraging unique capabilities and modular hardware

The solution is self-tuning and data are automatically striped across all disks in a logical storage pool for high performance.

- Providing intelligent load balancing
- Eliminating of hot spots
- Ensuring very high performance
- Dynamic thin provisioning
- Self-healing and automatic failover

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