

PanMove Archive

High-Performance Archiving Software for Large Data Volumes

One constant in computing is the tremendous rate at which data continues to explode. For high-performance computing (HPC), this unstructured data growth is compounded by the increasing convergence of traditional HPC with artificial intelligence and machine learning (AI/ML) workloads. The result is volumes of data that require integrated, easy-to-use data management and data mobility solutions.

Archiving large volumes of data is as business-critical as it is challenging. Challenges include freeing up expensive space on primary storages by moving data to a near-line archive, ensuring long-term preservation compliancy, automating rules for leveraging multiple copies and technologies, and always using open formats.

Panasas® provides PanMove™ Archive, a comprehensive, and easy-to-use data archiving solution. Combined with PanView™ Analytics, users can discover and analyze their data to then archive and retrieve it accordingly. PanMove Archive and PanView Analytics are the result of a collaboration between Panasas and Atempo, a leading provider of data protection and data management software.

A PanMove Advanced add-on software product, PanMove Archive secures data for any period of time in a centrally-managed archive, enabling the most efficient, reliable, and cost-effective way to protect critical business information. In addition, every item can be restored exactly the same as the archive.

State-of-the-art HPC and AI/ML environments require storage solutions that are the highest in reliability, scalability, and performance, and they should also be simple to manage. Whether it's pushing the boundaries in life sciences, manufacturing, energy, financial services, media and entertainment, or academic and government research, Panasas delivers the PanFS® parallel file system

with the PanFS software suite that includes PanMove Archive for high-performance archiving in the data center and to cloud and S3 object storage.

PanMove Archive Benefits

- Dedicated software solution for archiving digital information on any file or object storage server
- Automatically archive data at predetermined intervals to easily respect corporate policies
- Content can be easily and systematically moved from expensive disk storage to less expensive long-term media to minimize storage costs
- Simple and straightforward user interface to manually drag and drop files into specified archive folders
- Data reliability and integrity with automatic object integrity and file access checks
- Adjust data transfer speed performance by simply adding or removing data movement engines

On-Premise

Analyze data on ActiveStor® storage nodes and third-party storage solutions on-premise using PanView Analytics, then use PanMove Archive for high-performance archiving to and retrieval from colder tier storage, tape, and optical disk.

Cloud and S3-Interface Object Storage

PanMove Archive provides high-performance archiving for ActiveStor appliances to and retrieval from cloud storage archive tiers including Amazon S3, Microsoft Azure Blob block storage, Google Cloud storage, Seagate Lyve Cloud object storage, and any private or public cloud with S3 or SWIFT access.

PanMove Archive also provides high-performance archiving from ActiveStor appliances to and retrieval from S3-interface object storage.

PanMove Archive Components

PanMove Archive is a client/server archiving application that includes a server and several agents (data movers), as shown in Figure 1.

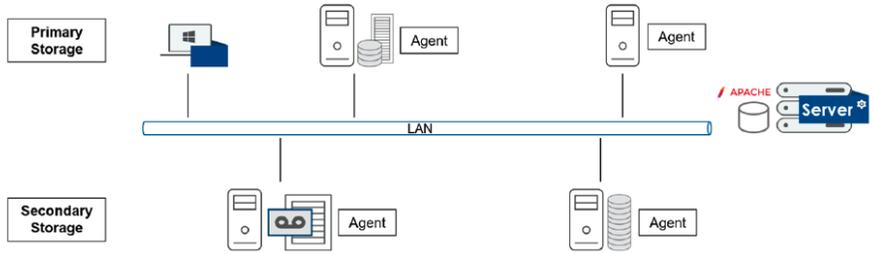


Figure 1. PanMove Archive Schematics Components Overview.

Central Administration

PanMove Archive comes with a console to manage settings for the entire system, including enabling license keys and creating users and groups. Levels of permissions granted to each user or user group can also be defined.

Web Interface

Data can be automatically archived and retrieved to and from personal or shared folders in repositories with the easy-to-use PanMove Archive Web interface.

Secure Data Movement

PanMove Archive guarantees fast and secure data movement, including optional Secure Socket Layer (SSL) encryption. This provides security and integrity of data and associated ACLs during data movement.

Long-Term Retention of Digital Assets

Digital information represents both the lifeblood of a business today and the basis of records that may need to be accessed by future generations. PanMove Archive enables the long-term retention of data files and guarantees that every item is restored exactly the same as it was archived.

High-Performance Data Movers

Unlike many other archiving solutions, PanMove Archive separates the detection of objects from the actual data movement and starts moving data early on. Using a powerful parallel processing and multi-task environment adapted to all file sizes, data movers copy or move data with optimized performance. Data movers can run on bare-metal servers or virtual machines as long as they have access to both the primary and secondary storage. Additional data mover instances can be added for increased performance.

Timely, High-Quality Service and Support

Unlike open-source solutions and even commercial alternatives from broad portfolio vendors, Panasas offers timely, world-class support.

More Information

For more information about PanMove Archive, contact your local Panasas representative or visit panasas.com/products/panmove.

About Panasas



Panasas builds a portfolio of data solutions that deliver exceptional performance, unlimited scalability, and unparalleled reliability – all at the best total cost of ownership and lowest administrative overhead. The Panasas data engine accelerates AI and high performance applications in manufacturing, life sciences, energy, media, financial services, and government. The company's flagship PanFS® data engine and ActiveStor® storage solutions uniquely combine extreme performance, scalability, and security with the reliability and simplicity of a self-managed, self-healing architecture. The Panasas data engine solves the world's most challenging problems: curing diseases, designing the next jetliner, creating mind-blowing visual effects, and using AI to predict new possibilities.

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