DATACORE™

Active Archive for Cost-Effective Long-Term Data Retention

Offload file servers and reduce costs while enhancing accessibility, regulatory compliance, and resiliency

Benefits

- **Significantly lower the cost** to retain less active data
- **Easily search and access** archived data via S3/HTTP(S) protocols
- **Reduce load and free up space** on primary file servers / NAS for critical data
- **Non-disruptively grow capacity** of active archive over the years, using any mix of hardware
- **Protect data** long-term against ransomware, cyber- threats, hardware failures, and outages
- **Reduce administrative costs** through automatic load balancing, proactive health processing and intelligent self-healing
- **Simple web console** allows a single IT admin to manage hyperscale archive

The Challenge

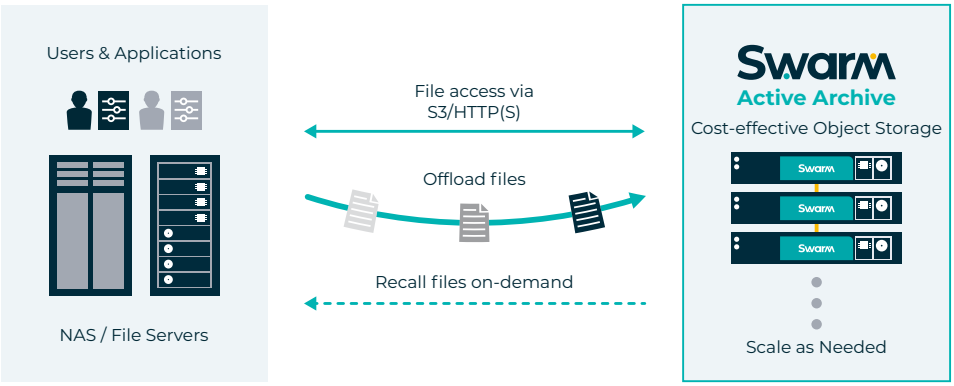
80–90% of your data is comprised of unstructured files (videos, images, documents, emails, analytics, etc.). These capacities rapidly grow year after year. Keeping active data on file servers and expensive NAS equipment makes sense but proves impractical and cost-prohibitive for less frequently used files. Especially the huge volumes of data that must be stored and protected for the long term in accordance with company requirements and/or compliance mandates.

Solution: Active Archiving

Active Archiving addresses these challenges by regularly moving less frequently accessed files to lower-cost, scalable storage, where they can be preserved and protected while still remaining accessible when needed.

DataCore Swarm Object Storage for Active Archiving

With **DataCore Swarm object storage**, you gain a cost-effective, and readily accessible Active Archive to complement your NAS infrastructure and file servers. You can ensure long-term, secure, durable data retention on-premises, which is still accessible by applications, devices, and users. Rather than locking out your valuable history, your archived data may be searched, analyzed, and recalled on-demand. Expand easily and non-disruptively by adding more servers and/or disks. Current and future technologies as well as different vendor models may be mixed in this software-defined storage solution. Many customers that start with a few hundred TBs or PBs, find they can effortlessly scale several fold with no added administrative effort thanks to automatic load balancing provided by the Swarm software.



Migrate inactive and less frequently accessed data to active archive

Futureproof with DataCore Swarm: Economical and Incrementally Scalable

As you evaluate the different options for large volume archiving requirements, such as tape, cloud, or on-premises object storage, consider which best meets your business needs. For example, tape is better suited for inactive/cold archives due to its lower performance and sequential access. Offsite cloud storage, also a good alternative for cold data, suffers from longer access latencies and typically comes with many hidden costs, such as egress fees that compound annually. Concerns over data sovereignty and security must also be factored into the decision.

On the other hand, DataCore Swarm enables you to keep prized information safely, and economically on-site with high-speed access when needed. The S3-compatible object storage system can also be integrated with tape and cloud storage to form a hybrid cloud environment. Easily and incrementally scale your active archive without having to restructure file systems or change access patterns.

Bulletproof Protection for Your Archived Data

Purpose-built with many security functions, Swarm defends your data from being compromised by bad actors. With multi-layered security, encryption, immutability, and replication capabilities, Swarm ensures your active archive is well-protected, and internal or external parties do not violate its integrity.

In the event of a failure or a site-wide disaster, you can recover the lost data from local or remote copies and ensure always-on availability and smooth business operations. By using a combination of replication and erasure coding techniques offered by Swarm, you can enable protection against outages and data loss. Proactively create data copies and store them locally or in a secondary site. Additionally, Swarm also allows replicating data to the public cloud for disaster recovery.

Flexible Deployment, Unlimited Scalability, and Simple Management

Swarm creates a massively scalable object storage cluster by leveraging standard x86 servers with any choice of HDDs/SSDs. There can be multiple Swarm clusters in a site or across sites based on business needs. Leveraging

a patented parallel architecture, Swarm automates data governance and protection as the cluster grows. Licensed by TB of capacity managed and protected, Swarm makes for an extremely affordable active archive solution.

Swarm software runs from RAM and only utilizes 5% hard drive capacity for system data resulting in an industry-leading 95% capacity for your data. Capacity and performance can be scaled in under 90 seconds after initial deployment. A single IT/systems administrator with general IT knowledge can manage thousands of tenants and exabyte-scale data.

A built-in health processor in Swarm continually checks for failed hardware, bit rot, replica or erasure coding anomalies, and network problems. An intelligent self-healing mechanism allows Swarm nodes in a cluster to cooperate with one another and work together to recover from node failures.

- **Ensure data immutability** with Legal Hold, WORM integration, and S3 object locking to protect against ransomware and other cyber-threats
- **Establish content integrity** using Integrity Seals
- **Apply data encryption** in flight and at rest
- **Track storage access** and activity with audit trails
- **Archive and protect data** for as long as needed to meet compliance regulations

Contact DataCore to learn more about our cost-effective on-premises Active Archive solution that can help address your mounting data growth challenges and budget concerns.

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DATACORE
Your Data, Our Priority

Discover the Ultimate Flexibility of DataCore Software

DataCore Software delivers the industry's most flexible, intelligent, and powerful software-defined storage solutions for the core, edge, and cloud. With a comprehensive product suite, intellectual property portfolio, and unrivaled experience in storage virtualization and advanced data services, DataCore has helped over 10,000 customers worldwide modernize how they store, protect, and access data. **www.datacore.com**