IBM

IBM Information Archive: The Next Generation Information Retention Solution

As you address your information retention needs: whether keeping valuable content for long periods of time, meeting industry retention regulations or addressing corporate governance, you need an archiving solution that is secure, scalable, but also cost-effective. IBM Information Archive, the next generation information retention solution is designed as an archiving repository for all types of content (structured or unstructured) to help organizations of any size address complete information retention needs—business, legal, or regulatory.

IBM Information Archive is designed to help you reduce cost, improve operational efficiency and manage risk, in the following ways:

Reduce cost
- *Reduces disk capacity requirements with its built-in data deduplication and compression features*
- *Eliminates the need to maintain two separate platforms for structured and unstructured information.*

Highlights

- *Universal storage repository for all types of content, structured and unstructured, compliant or non compliant*

- *Provides up to three customizable information collections per IBM Information Archive*

- *Provides up to three information protection levels offering maximum flexibility*

- *Stores information via multiple access methods*

- *Scales up to 304 TB (Raw Capacity)*

- *Maintains data integrity until deletion is permitted by retention policy*

- *Enhanced security and protection with data encryption option*

- *Helps optimize storage consumption with data deduplication and compression features*

- *Offers low Total Cost of Ownership (TCO) by allowing use of mixed media (disk and tape)*

- *Increases data security through patent-pending Enhanced Tamper Protection feature*

- *Reduces primary storage requirements by moving information to lower cost storage tiers, including tape.*
- *Single management point helps reduce the labor required to manage archived information.*
- *Ability to use a single repository that allows reduction of floor space and energy cost.*

Improve operational efficiency
- *Support of Industry standard interfaces and protocols minimize investments in information retention*
- *Ease of install and configuration enables quicker time-to-value*
- *Its single user interface and RAS footprint simplifies management of archived information*
- *Provides the flexibility to configure up to three separate information repositories (collections) within one IBM Information Archive*

Manage risk
- *Designed to help your business meet the most stringent information retention requirements.*
- *Provides a compliant storage repository (NENR, WORM, encryption).*
- *Increases protection through its new patent-pending Enhanced Tamper Protection feature.*

To help you meet the growing challenge of efficiently managing and protecting business information, IBM offers IBM Information Archive, an integrated storage repository solution for archiving multiple types of data from multiple sources. Designed to help you store, retrieve, manage, share and secure regulated and non-regulated data, the Information Archive is designed to be highly secure and offer extraordinary cost efficiency.

IBM Information Archive offers' policy-based, data retention capabilities designed to support non-erasable, non-rewritable (NENR)/write once read many (WORM) data storage protection and help address the needs of regulated and non-regulated industries with long-term data retention and protection requirements.

In addition to data encryption capabilities, each collection within the IBM Information maintains a set of tamper-proof audit logs, which provide an immutable and retention-protected provenance record for documents in the collection. Audit logs track document ownership and system lifecycle events including document creation and deletion, changes to retention policies, and system software upgrades.

Customizable data retention features for dynamically changing environments
In order to meet the widest range of retention demands, the IBM Information Archive allows the IT Administrator to customize retention policies based on unique and dynamically changing business requirements.

It provides three information protection levels with up to three archive collections within a single system. This 3x3 combination provides you the greatest flexibility of protection levels to help your organization meet unique data retention requirements. With different collections you have the flexibility to assign customized levels of protection, and retention policies for different kinds of data based on business rules.

These customizable retention policies include:

- *Time-based and event-based information retention policies to protect information from intentional or accidental deletions or modifications*
- *Retention hold and deletion hold feature to set indefinite period of retention on a file during circumstances such as legal discovery.*

IBM Information Archive at a glance

General Ingest—General Parallel File System (GPFS™) Node	• 2U System x® server • Two quad-core Processors • 24 GB memory • 2 x Dual Ported Fibre Channel (FC) Host Bus Adapter (HBAs) • 4 1 GB copper Ethernet ports • Redundant 146 GB 15K rpm Serial Attached SCSI (SAS) • Optional: Dual ported 1 Gb fibre Ethernet card (for Fibre customer infrastructure) • Up to 3 nodes per cluster
Management Node	• 1U System x server • One quad-core processor • 4 GB memory • Ethernet daughter card (4 ports total on planar and daughter) • Optional: Dual ported 1 Gb fiber Ethernet card (for fibre customer infrastructure)
Private FC SAN Data Network	• All disk controllers accessible to all Ingest/GPFS nodes • 4 Gb FC Storage Area Network (SAN) via 8 Gb capable FC switches • Dual-redundant 24-port FC switches • Private dual/redundant Ethernet network for management traffic (and later for indexing I/O traffic) with dual 24 port Ethernet switches
Redundant Array of Independent Disk (RAID) Controllers	• System Storage Mid Range Disk Controller with 16 HDD/3u disk controllers with hardware remote mirroring support • Dual-redundant active/active RAID controllers in each Disk Controller • RAID 6 data protection • 2 GB cache per Disk Controller • 2 x 4 Gb FC ports per controller (for server access). 2x 4 Gb FC ports per controller for remote mirroring • Serial Advanced Technology Attachment (SATA) 1 TB HDD's • 112 TB of raw capacity in rack 1, 2x96 TB raw in rack 2
Disk Expansion drawers	• System Storage Expansion Unit with up 16 HDD/3u expansion—up to six per Disk Controller • SATA 1 TB HDD's
Service console	• Integrated service console with Keyboard- Video-Mouse (KVM) • All inside locked rack • Call Home, Remote Support via Remote Support Manager (RSM) server running on System x (1u) server with 1 processor and 2 GB of RAM
Rack	• Standard 36u 19" rack with lock • One IBM Information Archive (main) rack and up to one (storage expansion) rack
Tape Systems	• Tape attachment is fully supported

In addition, the Information Archive is designed to enforce policies that have been set by applications using POSIX commands to identify specific retention dates in addition to extension dates.

Advanced storage management capabilities

The IBM Information Archive is designed to provide advanced storage management technology to enable the management and enforcement of data retention policies. It is well-suited for archiving a broad range of electronic records, including e-mail, digital images, database applications, instant messages, account records, contracts, insurance-claim documents and more.

The IBM Information Archive is designed to archive and retrieve documents through a wide range of software applications using an industry standard interface such as Network File System (NFS) IBM Information archive also supports the variant of Tivoli® Storage Manager (TSM) System Storage™ Archive Manager (SSAM) interface.

With IBM Information Infrastructure solutions, you can leverage tiers of storage (disk and tape) with policy-based management that automatically moves less active information to more cost-effective storage system, as well as deduplication and compression techniques to achieve storage capacity optimization and improved productivity.

As organizations address new regulatory and legal compliance requirements, they must ensure that necessary documents and records are available with their original information and accessible when needed. The IBM Information Archive is an integral component to IBM's extensive archiving and data retention offerings.

For more information

To learn more about IBM Information Archive, please contact your IBM sales representative or IBM Business Partner, or visit:

ibm.com/systems/storage/disk/archive/index.html

Additionally, IBM Global Financing can tailor financing solutions to your specific IT needs. For more information on great rates, flexible payment plans and loans, and asset buyback and disposal, visit:
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