

NEWSLETTER

# How to Build an Enterprise Archive in the Cloud

Including Application Retirement, Database Archiving, Email Archiving, and File Archiving.

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Data-driven applications require data and lots of it. And everyone knows that as the data grows, so grows the challenge to efficiently manage applications, servers, networks, and storage. To reduce this complexity, many organizations are now creating an enterprise archive in the cloud.

An enterprise cloud archive is a unified, cloud-based repository for enterprise data. The data may be structured and sourced in real-time from relational databases, or it may be valuable email correspondences describing important events, or the data may be unstructured including chat, social media, IoT, or files of any description. All enterprise data, whether current or historic, is ingested into the enterprise archive to establish a single, real-time, archive view of the business.

Cloud data management systems establish the data fabric to collect, manage, govern and search an enterprise archive. The data fabric consists of four essential capabilities.

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### CONNECTIVITY

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### METADATA MANAGEMENT

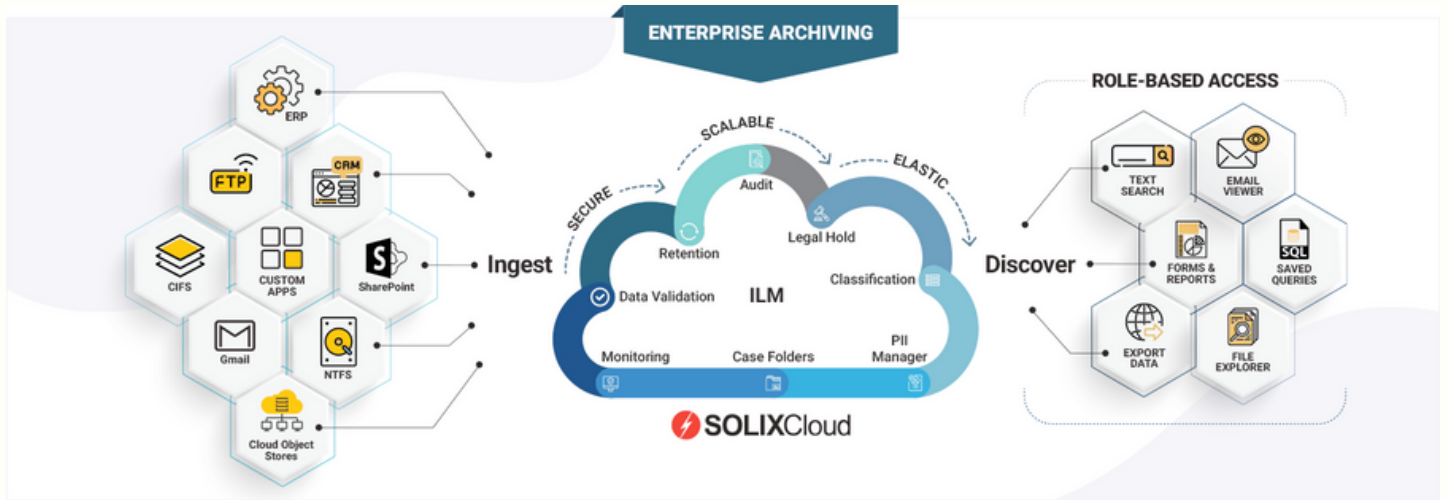
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### DATA GOVERNANCE

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### DATA DISCOVERY

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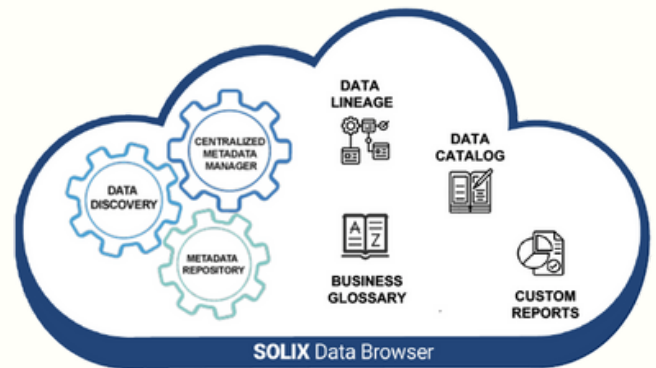
## Connectivity

Enterprise archives collect data from many sources across the enterprise including mainframe systems, ERP, CRM, email systems, file stores, relational/non-relational databases, and even SaaS environments like Salesforce or Workday which have become new systems of record.

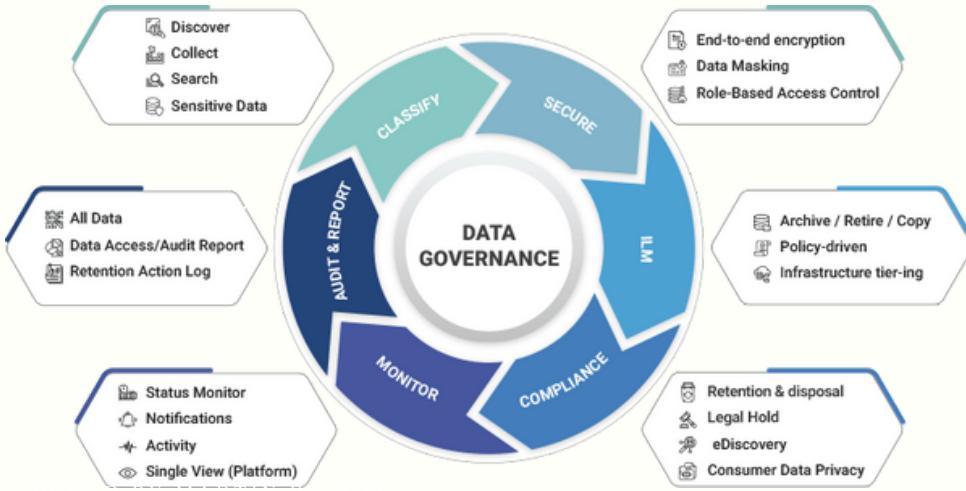
Cloud data management solutions establish these critical connections and ingest the data as-a-service.

## Metadata Management

With so much data to manage, metadata management helps users understand their data better and tracks data lineage from a centralized repository. Users create business glossaries and metadata catalogs to quickly and easily explore their data landscape with consistent descriptions and business context ensuring that the enterprise data can be integrated, accessed, shared and analyzed.



# Data Governance



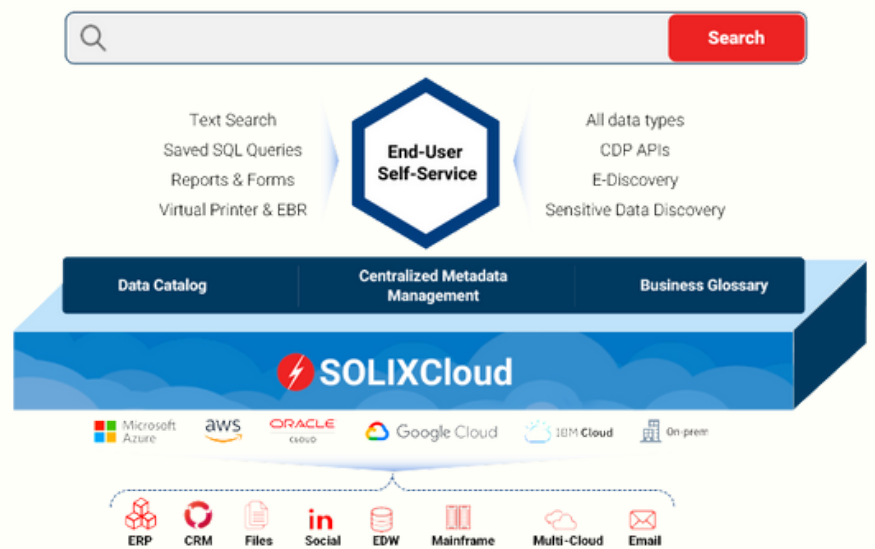
Managing large amounts of data carries inherent risks and opportunities for the organization and Information Lifecycle Management (ILM) rules are needed to ensure that all data is properly managed throughout its lifecycle using legal-hold and comprehensive data retention policies.

ILM establishes a rules and policy driven framework to secure enterprise data and achieve compliance with governance policies, litigation orders and consumer data privacy regulations like GDPR.

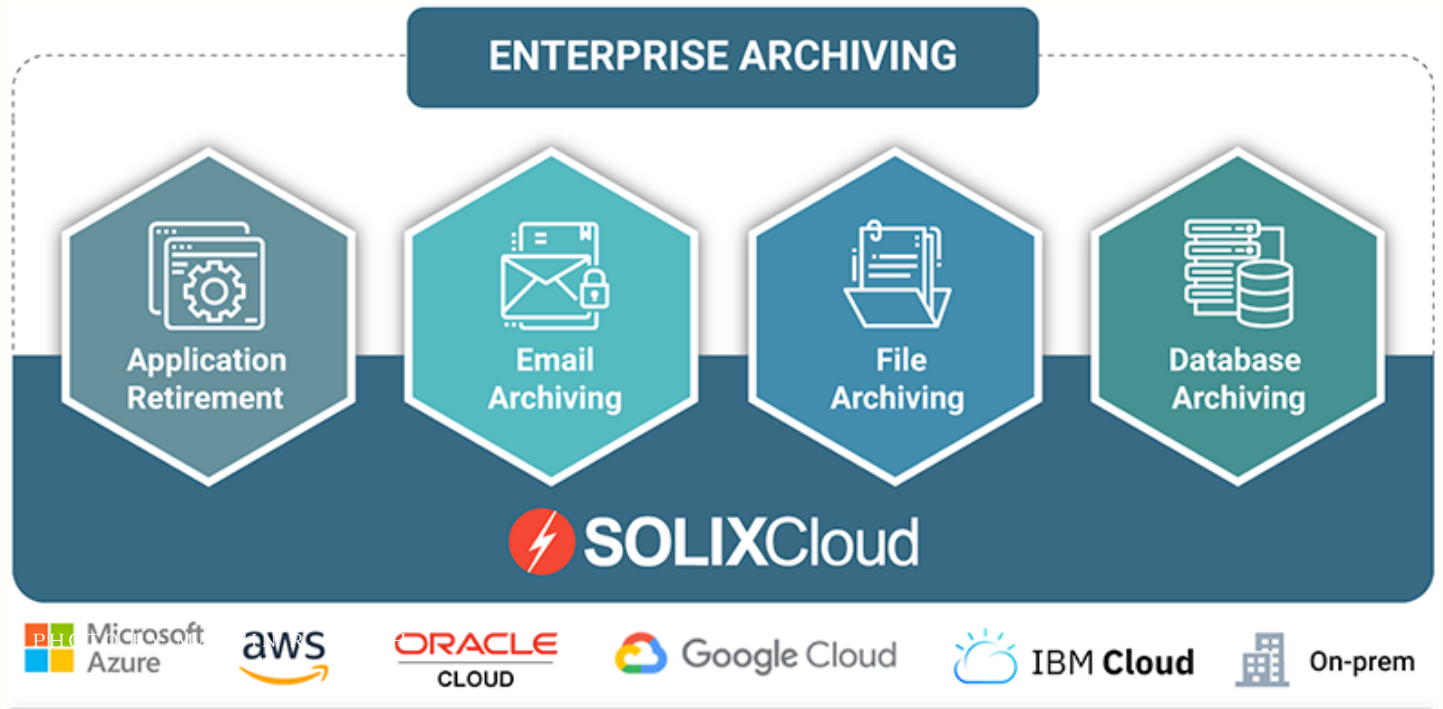
Personally Identifiable Information (PII) requires continuous monitoring and audit availability for SOC2, Personal Health Information (PHI) and Payment Card Industry (PCI) compliance. Accordingly, all sensitive data must be first discovered and classified, and then encrypted, masked or redacted when necessary so as to be accessible only by authorized users.

# Data Discovery

Organizations require universal access to search and query their enterprise archive. Users may require access to historical or current transactions from ERP and CRM systems, HR files or perhaps to view X-rays for a patient. Since all this data is stored in a wide variety of formats, search methods must support different metadata models for simple end-user access even if the system of record that produced the data no longer exists.



Powerful text search, ad hoc query and structured reporting is needed to enable self-service access by authorized users.



Enterprise archiving reduces the data volume running on production systems, improves application performance and optimizes infrastructure. By managing data growth, organizations reduce costs and improve overall system availability.

Enterprise archiving in the cloud makes the deployment and runtime experience easier, and perhaps more secure and reliable as well. But for the data-driven organization, enterprise archiving establishes a unified, archive view of the business to unlock competitive insights, delivers critical source data to hungry data-driven applications and ensures data governance and compliance for the enterprise.



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