

Active Archive

Digital Enterprise Unit



With the growth of connected devices and intelligent applications that generate high volumes of data, data storage, governance and compliance have become major challenges for businesses. The growing volume, velocity and range of data are making data management a demanding and expensive undertaking. Traditional tape based archiving makes accessing historical data difficult and time consuming while modern data warehouse appliances come with a huge price tag. In addition, effective governance of enterprise data is an important requisite from the IT productivity improvement and cost reduction perspective.

Tata Consultancy Services (TCS) Active Archive empowers organizations to manage their enterprise data efficiently, in compliance with regulatory and industry requirements. This Hadoop based, cost effective and integrated solution addresses both structured and unstructured data flowing into the organization from different sources. The solution empowers users to run queries on and capitalize historical data for analytics. It ensures efficient archival into a Big Data repository and enables easy retrieval and management of information to improve decision making.

Overview

Data volumes have grown exponentially, with large volumes of data flowing into organizations from an ever-increasing variety of sources including online and social media platforms. While regulatory authorities mandate the storage of historical data for a specified period of time, operational database are unable to scale to manage the growing volumes. For organizations to gain insights on customers, operations and vendors, effectively managing this data for simplified governance, security and retrieval is essential. Data managers today need a solution for data storage and archival that identifies and moves less critical data to an archive system. This dynamic solution must support easy retrieval and offer low maintenance cost.

TCS Active Archive effectively overcomes the current challenges of data management. Based on Hadoop, an open source software framework, our solution stores both structured and unstructured data from a variety of data sources into a Big Data repository. The solution provides an effective and efficient alternative to traditional mass storage archives that cannot be easily accessed, and data warehousing solutions which are prohibitively expensive. A warm archive, it enables Business Intelligence (BI) and visualization tools to readily access archived data for performing analytics. Our cost-effective, scalable and secure data archive solution supports industry standard security, user management, metadata governance, audit logs, dashboard reporting, job scheduling and monitoring.

“A high performance archival solution providing Scalable, Secure, Robust and Cost effective Big data Archive, where archived data is kept “warm” for easy access and analytics.”

Benefits

TCS Active Archive is a high performance solution for archiving, retrieving, retaining and managing the growing volume and variety of enterprise data. Our solution offers:

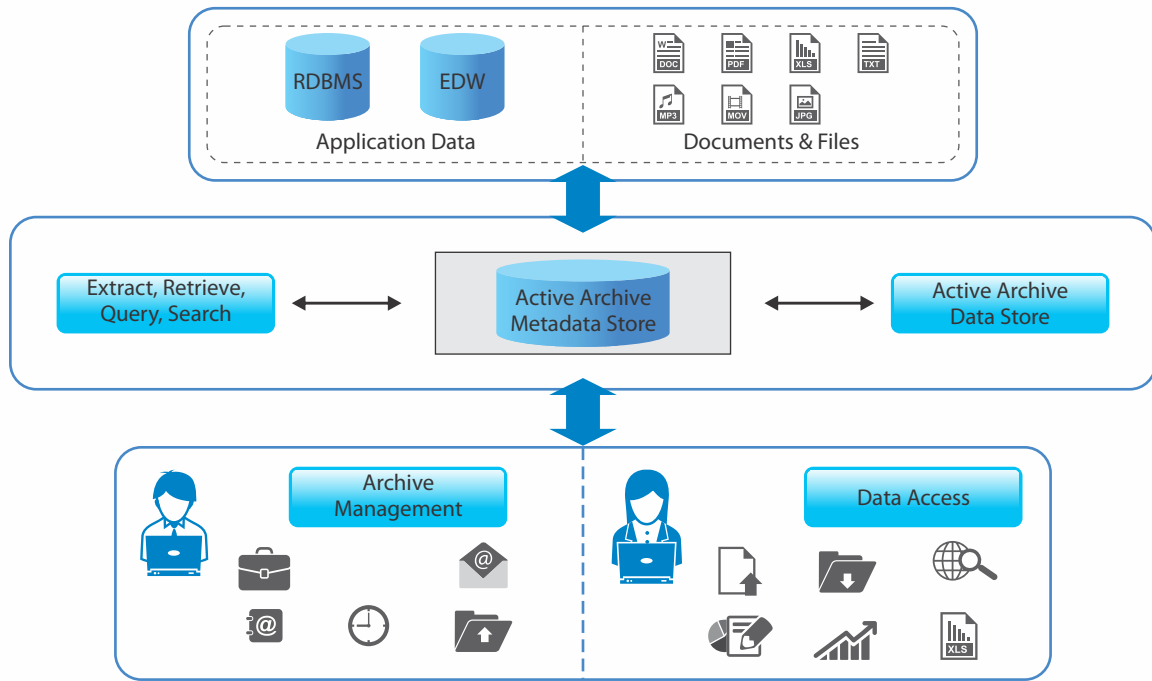
Archival of Structured and Unstructured Data Process structured, semi-structured, and unstructured data through easy archival of RDBMS, flat files, zip files, MS Office Word documents, PDF, and others including data from legacy solutions.

Easy Access to Warm Archive View, search and query archived data, maintained ‘warm’ and instantly accessible. Query up to 1.3 billion records in less than 3 minutes. Enable BI and reporting tools to access archived data directly.

Broad Connectivity Support data archival from standard RDBMS, analytical databases and packaged enterprise applications.

Regulatory Compliance Archive and retain data for customizable periods to address regulatory compliance needs. Additionally, leverage the solution to protect and flag legal data for impending action.

An Overview of Active Archive



The TCS Advantage

TCS Active Archive combines our strong development capabilities with business process expertise to meet the data management and governance requirements across your enterprise. Our solution delivers additional value through:

Hadoop Data Storage TCS Active Archive leverages Hadoop and associated technologies for data storage, effectively eliminating vendor dependencies and service management overheads. TCS Active Archive can deliver data storage scalability up to petabytes and offer 4X cost savings through compression.

High Performance Archival TCS Active Archive's scalable platform delivers high data performance for both archival and retrieval tasks. The solution's design harnesses the power of parallel processing to offer accelerated data movement at speeds of 1.5 billion records per hour and supports failure management with the 'data transfer resume' feature.

Adapting to schema changes The system's flexible and scalable design easily adapts to application modifications, to address the evolving needs of your enterprise.

Integrated Web based UI TCS Active Archive's integrated web based user interface (UI) simplifies information retrieval and access. It stores both structured and unstructured data efficiently, and renders data available to aid faster decision making.

Enterprise Integration Readiness Active Archive seamlessly integrates with BI Tools, enterprise scheduler, encryption standards and alerting mechanisms to ensure enterprise wide data visibility.

Secure Archival Ensure data security through Kerberos Authentication, LDAP and Active Directory integration, AES 256-bit encryption and user management modules. Mitigate any internal security threats with the auto alert feature that issues warnings for every access attempt.

Optimized Storage Facilitate need-based data retention and address analytics requirements using optimal storage methods that leverage Hbase, Hive and other technologies.

Reporting Effectively monitor and track activities through automatic job staging, detailed reports, dashboards and audit logs.

Awards & Recognition



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