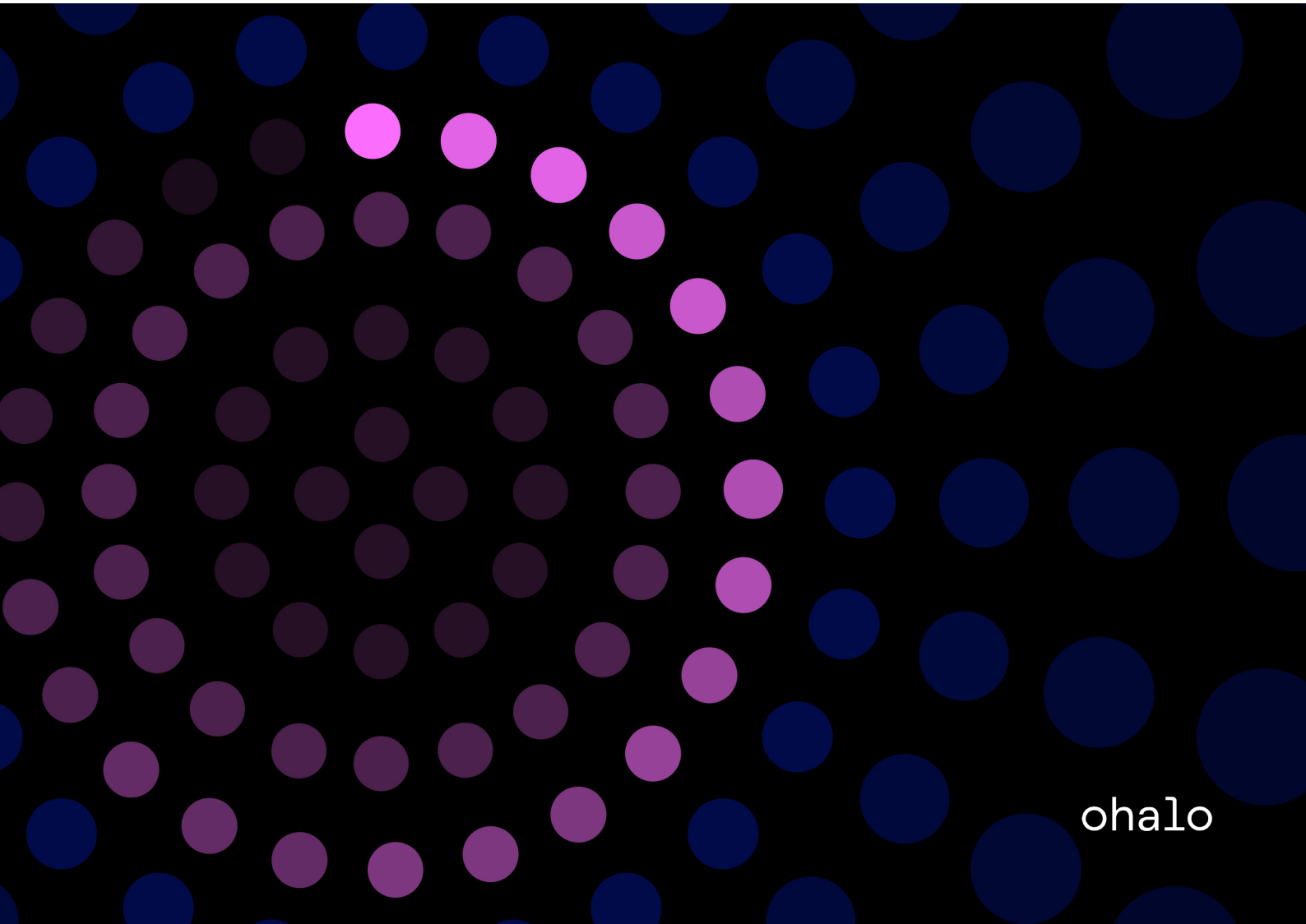
Data X-Ray

UNSTRUCTURED DATA INSIGHTS

Data Discovery, Classification, and Auditing for Security and Stability in Financial Services

How implementing a comprehensive data discovery, classification, and auditing solution can improve data visibility and streamline data management.



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Why do anything at all?

Data discovery is a critical component of information security. With the increasing volume and complexity of data, it has become increasingly difficult for financial institutions to identify and protect sensitive information. The ability to quickly and accurately discover data can mean the difference between a minor inconvenience and a major data breach.

Consider an example of a global bank that lacks a reliable process to control employees' access to unstructured data. The data may be sensitive and available in various formats, such as Word documents, presentations, and email attachments. The exposure of such information could create internal security vulnerabilities and increase the risk of data misuse.

To solve this problem, the bank relied on an automated solution to find all unstructured data assets and figure out the necessary preventive measures.

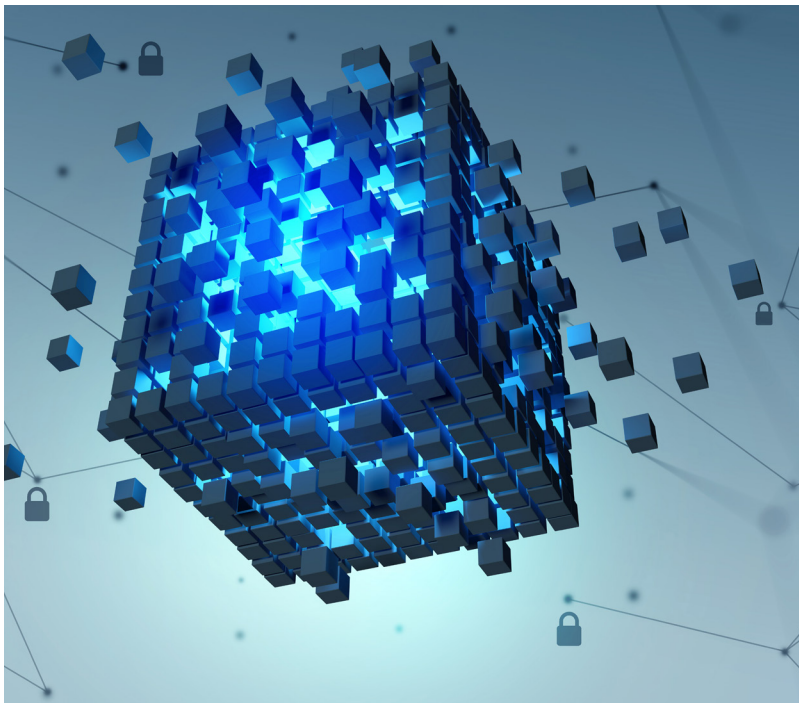
Implementing a Comprehensive Data Discovery, Classification, and Auditing Solution

Problem

Lack of Unstructured Data Asset Monitoring Puts A Medium-Sized Bank at Risk

Lack of formal unstructured data discovery can conceal the location of data, employees with access to that data, and the measures required to enhance security controls.

With a customer base of 500,000 individuals and small businesses, a medium-sized bank encountered difficulty in locating and overseeing unstructured data assets across the institution. The IT department found it infeasible to manually track data on the shared drive and network, resulting in ambiguity regarding the extent of information stored by employees, authorized access, and usage. As a result, exposing the bank's critical data to unauthorized access.



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Solution

Implementing Unstructured Data Discovery and Monitoring

To begin with, the bank chose to analyze 5 million files present in their SharePoint sites, deploying Data X-Ray on-premises.

Powered by machine learning (ML) and natural language processing (NLP), it quickly scanned the files in 2.89 days.

Data X-Ray first used NLP to understand the context and meaning of the metadata and the files, and then used ML algorithms to identify patterns and detect files with sensitive data, including but not limited to personal identification numbers, financial records, and confidential business information.

Following the data discovery process, the bank's team used Data X-Ray's smart labeling feature to classify the files and take necessary action.

Time taken by Data X-Ray to scan 5 million files on SharePoint sites

Results

End-to-End Visibility and Control Of Unstructured Data

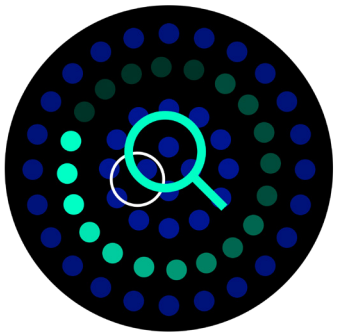
The bank integrated the Data X-Ray platform into their data governance plan, resulting in a centralized view of their unstructured data.

The bank's teams are now able to quickly identify unstructured data assets throughout their data ecosystem, including email archives and attachments, thereby enhancing their overall information security stance.

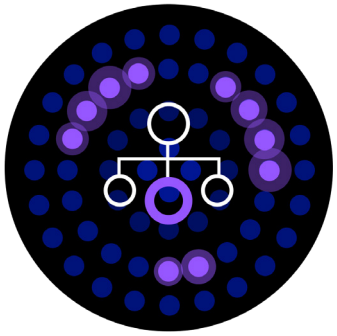
Currently, Data X-Ray has already assisted the bank in discovering, classifying, and auditing over 20 million files for their core use case. This has since expanded to other teams utilizing the platform for records and retention management, privacy and legal holds, and more.

By integrating Data X-Ray, the bank developed capabilities to:

Automate the discovery of unstructured data and provide insights to data administrators and stewards on the sensitivity of data and understand data access and user controls at scale.



Implement an automated process for classifying files, auditing activity on files, and enforcing relevant practices like migrating, deleting or applying data redaction techniques to mitigate potential hazards.



Conduct regular audits to locate and classify files and centrally collaborate on data for data security, ongoing discovery and classification.

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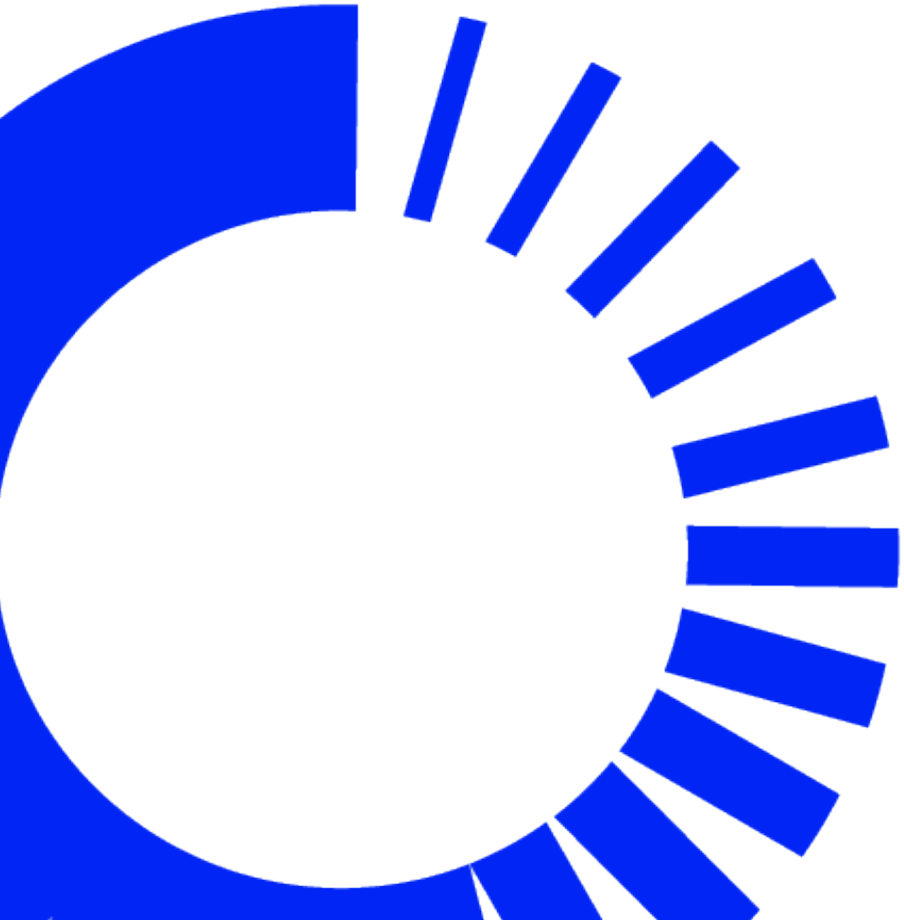
Introduction to Data X-Ray

Data X-Ray is a modern, scalable, technology stack that can easily be deployed in the data centre , cloud or both.

It scales linearly and can scan 100,000s of words per second with even the smallest servers. Data X-Ray seamlessly connects with key data sources via native connectors and has customizable SDKs for connecting both upstream to datasources and downstream metadata consumers (like data catalogs, event and alerting systems, and more).

With Data X-Ray, organizations can quickly gain a comprehensive understanding of their data, and base decisions on complete, accurate information. Thereby, reducing risk and increasing confidence.



About Ohalo

Ohalo helps large enterprises and governments understand what is in the hundreds of millions of files that they store across any datasource type. The Data X-Ray delivers accurate data discovery, classification, file activity monitoring, and sensitive data redaction. This allows privacy, security, and compliance teams to easily scan, spot, and secure sensitive information, streamline data requests, and comply with privacy regulations and security standards.