



Discovery-In-Depth

The Path to Data Intelligence

Data discovery is foundational for all types of data management: from cybersecurity to data privacy to data governance. For today's data challenges, enterprises need a multi-pronged strategy to accurately identify all types of sensitive, critical, & personal data in an organization – and that strategy starts with discovery-in-depth.



INTRODUCTION

Data discovery is a foundational element of any type of data management: from cybersecurity to data privacy to data governance.

Discovery is at the core of data intelligence, insight, analysis, and trust - and needs to be both scalable and automated in order to successfully address the volume (and type) of data that organizations collect.

Effective (and sustainable) privacy, security, and governance programs require discovery in-depth: empowering organizations to scratch more than just the surface of their data.

That means not only finding and identifying more types of sensitive and personal data with greater accuracy, but being able to apply context, insight, and perspective to that data – which then helps inform policy and controls.

It's no longer enough to only be able to identify regular expressions and common types of sensitive data (like credit card numbers or social security identifiers).

Data protection and privacy regulations and standards- from the CCPA and GDPR to the NIST cybersecurity Framework - have transformed the very definition of what is considered sensitive data - extending it to a much broader set of data: including business data, personal data, regulated data, related data, and more.

Data management and governance strategies require data that's accurate, high quality, and trusted to get the most value out of it - and for today's data challenges, that requires a holistic view of all data, everywhere.

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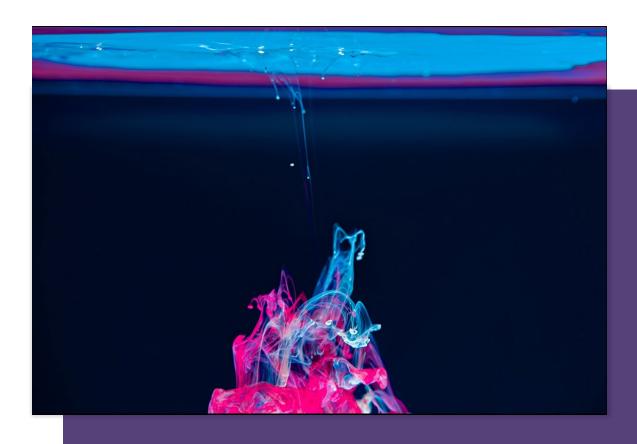
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One of the biggest challenges to better manage, protect, and get value from enterprise data is accurately identifying sensitive data in the first place: and that starts with finding, cataloging, and protecting variations of highly sensitive, restricted, and uniquely identifiable data across the entire organization. Those data types might follow specific patterns like a social security number or PCI data like credit card numbers, could vary formats and values, like a customer ID or unique account IDs, or be business critical data unique to an organization.

Traditional approaches to data discovery, file analysis, and classification can be noisy, full of false positives, siloed, and difficult to scale.

The solution? Discovery-in-depth.



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Discovery-in-depth:

How it Works

BigID leverages discovery-in-depth to provide deep data intelligence, combining multiple modes of discovery and context around sensitive data.

By applying machine learning and correlation, organizations can more accurately identify all types of sensitive data – and can understand data context and relationships (rather than looking at a data point in isolation).

The first layer of a discovery-in-depth approach is being able to find and identify sensitive data by regular expression (RegEx): these are typically sequences of characters that define a specific pattern. It's a technique that revolves around pattern matching and knowing the exact format of the sensitive data that you're trying to find: traditional identifiers from bank account numbers to email address formats to ID numbers.

BigID goes a step further with this approach to include common security attributes like explicit passwords, encrypted private keys, security tokens, and more.

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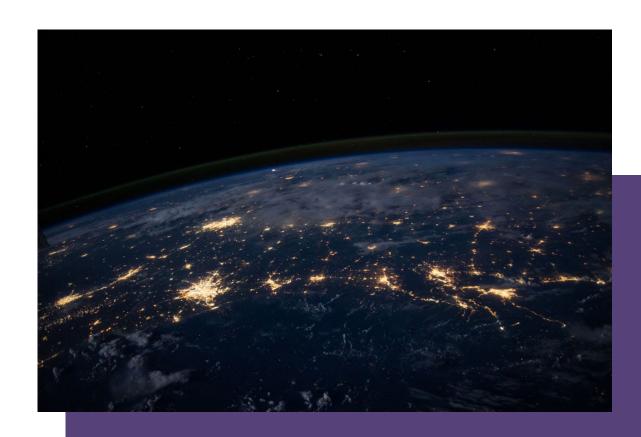


The next layer goes broader: discovering personal information (PI) that's traditionally more difficult to define – information like date of birth, voting trends, first names, last names, residency and more.

Machine learning techniques and context-based classifiers are able to uncover this type of data – discovering and inventorying a broader set of personal and sensitive data.

On top of that, deep data discovery requires an identity and entity-based approach: revealing data relationships, identities, inferred data, and associated data.

By adding correlation, organizations are able to not only uncover dark data, but are able to surface relationships between sensitive data – inferring new data attributes and extending visibility to all sensitive & personal data that they collect.





HOW TO APPROACH

Discovery-In-Depth

BigID approaches discovery-in-depth with 4 Cs: catalog, classification, cluster analysis, and correlation - all working together in a privacy-centric approach for unmatched data discovery and context around personal and sensitive data.

▶ Catalog

Automatically catalog and map sensitive & personal data with deep data insight, incorporating active metadata and classification. Gain additional privacy, security, and business insight - all within a single pane of glass.

▶ Classification

Classify data by type, identity, attributes, patterns, category, & policy. BigID goes beyond RegEx and applies different layers of classification to identify and analyze a more extensive set of attributes.

▶ Cluster Analysis

Leverage cluster analysis to rapidly and accurately identify file content and type, and label clusters of data for policy and enforcement. Cluster analysis is a machine learning technique to impose structure on unstructured data at scale.

▶ Correlation

Add context to classification and surface relationships between data points. Build identity and entity profiles, associate whose data it is, and visualize how data is interconnected across data sources.

BigID empowers organizations to know their data – and apply privacy, protection, and perspective to that data. A discovery-in-depth approach gives 360° visibility to sensitive data, along with deep data intelligence across all types of data, across all data stores click here for a demo to see how BigID's discovery-in-depth is the first step to reduce risk, achieve compliance, accelerate cloud migrations, and unleash the value of your data.