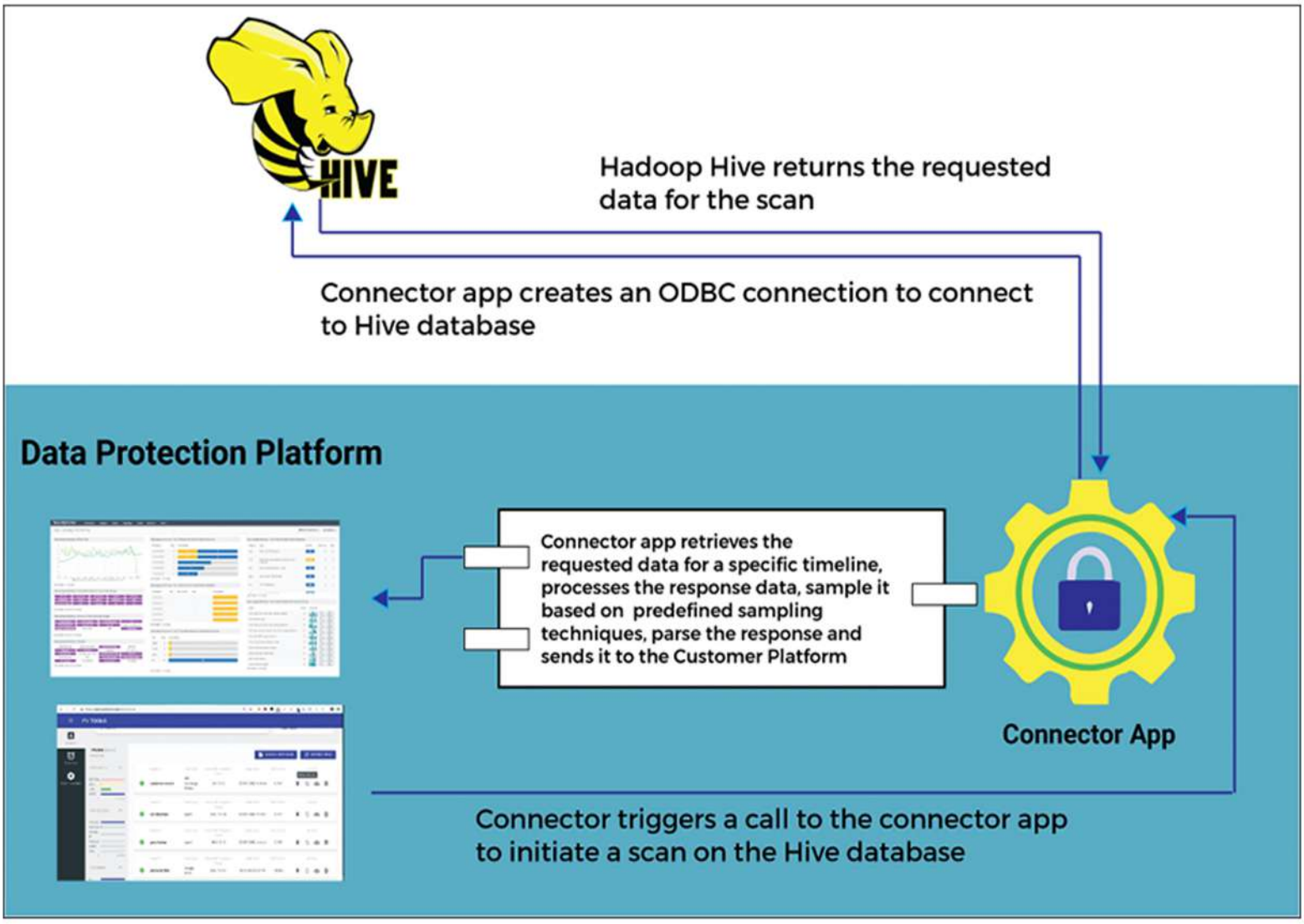
Data Protection platform integration with Hadoop Hive



Customer

Customer is a leading Personal Data Privacy and Protection provider.

It enables organizations to discover and map all types of data from all enterprise data sources; automatically classify, correlate, and catalogue identity & entity data into profiles; manage and protect enterprise data with advanced data intelligence; and automate data privacy and protection.

It identifies all PII across structured, unstructured, cloud & Big Data.

Requirement

Customer requested to build a Connector app to integrate their platform with Hadoop Hive to scan the data present in the Hadoop Hive for finding the PII information.

Technology Solution

- Apache Hive is a data warehouse software project built on top of Apache Hadoop for providing data query and analysis. Hive gives a SQL-like interface to query data stored in various databases and file systems that integrate with Hadoop.
- Sacumen developed the Connector app to integrate Hadoop Hive using C# 8.0 (.NET Core 3.0). The Connector app performs the following actions:
  - Creates an ODBC driver connection.
  - Following are the important parameters to get-set Connection String. Rest of the parameters can be set as required by ones application.
    - DRIVER={Microsoft Hive ODBC Driver} - Host=server_name - DRIVER={Microsoft Hive ODBC Driver} - Host=server_name
  - Connects to Hive cluster using the connection string.
  - Retrieves the data of all the tables from the database.
  - Gets the requested data within a certain timeline.
  - Samples the fetched data using predefined sampling techniques.
  - Formats the received data in the required format and pass it to the customer.

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Sacumen is an award winning pure play security product development services company. We are engaged with 50+ security product companies such as Symantec, Palo Alto Networks, Varonis, AlienVault, IBM, CA Technologies, ThreatConnect, SecurityScorecard, ForgeRock, Code42, BigID, Flashpoint etc in the areas of Connector Development, Connector Support and Product Engineering.

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