



Personal Data Privacy and Protection platform integration with Google Cloud Datastore

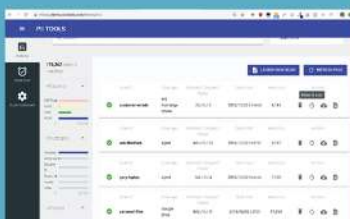


Cloud Datastore

Cloud Datastore returns the requested entities for the scan

Connector app authenticates the user using OAuth and makes REST API call to Cloud Datastore

PII data Scanning Application



Connector app retrieves the requested data for a specific timeline, processes the response data, sample it based on predefined sampling techniques, parse the response and sends it to the Customer Platform



Connector App

Connector triggers a call to the connector app to initiate a scan on the Datastore



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.

Customer requested to build a Connector app to integrate its platform with Google Cloud Datastore to scan the data present in the Datastore for finding the PII information.



Requirement



Technology Solution

- Google Cloud Datastore (Cloud Datastore) is a highly scalable, fully managed NoSQL database service offered by Google on the Google Cloud Platform.
- Sacumen developed the Connector app to integrate Cloud Datastore (Firestore in Datastore mode) using Java SDK 8 version. The Connector app performs the following actions:
 - Set up the OAuth consent screen in Cloud Console and get the Client Id and Client Secret to authenticate the API.
 - Connects to Cloud Datastore using the ProjectId and the OAuth flow.
 - Retrieves the data of all the entities from the database.
 - Retrieves the detail of a single entity using its key.
 - 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.

