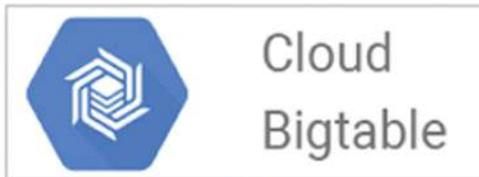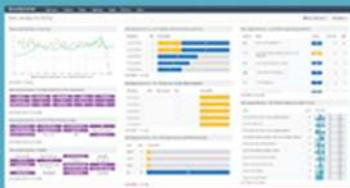# Data Protection platform integration with Google BigTable

Cloud Bigtable

BigTable returns the requested data for the scan

Connector app connects to the BigTable instance in a project using service account to fetch the data

Threat Intelligence Platform

Connector app retrieves the documents from BigTable instance, 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 Cloud BigTable

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 catalog 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 Google BigTable to scan the data present in the BigTable for finding the PII information.

Technology Solution

- Cloud Bigtable is Google's NoSQL Big Data database service. It's the same database that powers many core Google services, including Search, Analytics, Maps, and Gmail.

- Sacumen developed the Connector app to integrate Google BigTable using C# 8.0 (.NET Core 3.0). The Connector app performs the following actions:
  - Set up the Service account in Cloud Console and get the authentication file with the project details.
  - Connects to Cloud BigTable using the ProjectId and the Instance Id.
  - 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 required format and pass it to the customer