Solutions

From Data Modeling to Security Operations Center

Discover how you can now process confidential data while guaranteeing privacy – leveraging state-of-the-art encryption techniques with Cosmian integrated, privacy-by-design solutions.
Our privacy-by-design solutions address companies using sensitive, confidential data (personal or industrial) to improve their internal processes, current products & services and create innovative services – while making sure they operate with the maximum compliance with regards to data privacy and security.

Cosmian helps data-driven companies to dramatically lower the risk associated with manipulating sensitive data. While keeping their current data analysis working environment, our clients can now perform their calculations over encrypted data flows– with super strong data protection & privacy.

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Privacy-preserving Data Lake. Finally.

Implementing a data lake is a crucial phase for data-driven companies to better control, and process confidential data to fuel customer's knowledge and drive innovation. In this process, a key issue for Data Protection Officer (DPO) is manage access to the data lake – including to external third-parties – while ensuring data security & privacy.

With Cosmian, IT and Data teams can ensure compliance with regulations and protection of sensitive identifiers while allowing data scientists to safely access the data lake, **and generate business value out of the data.**

Benefits

Core Features

Related Use Cases

Ultra-secure protection of confidential identifiers (stronger than hash methods).

Only authorized third-party can join encrypted, confidential IDs (contrarily to hash methods).

Upon request: extended possibility to definitely encrypt confidential IDs – no private key available.

Secure your model & algorithm assets when deployed in your client infrastructure.

As an algorithm or model owner, you have developed an innovative service based on proprietary research. You have secured business agreements with data partners that allow you to fuel their confidential data to run your service. But very likely, your data partners are not comfortable to let go sensitive data over to you – and reciprocally, you are not comfortable with letting your algorithms operate near your data partners' servers.

With Cosmian, you can now securely let your algorithms operate close to where the confidential data are hosted.

Benefits

Core Features

Related Use Cases

IP protection of the algorithm operating the customers' confidential data.

Respect of Privacy of the customers' confidential data when in use.

Impossible to reverse engineer the algorithm when at use.

Secret Search on Common Confidential Events.

In situation of malicious attacks, it is crucial for IT teams to quickly know whether the suspicious patterns they detect have manifested elsewhere, including in other – sometimes competitive – companies. This multi-party search needs indeed to protect the privacy of the concerned entities. A very similar situation is encountered in the case of Fraud Detection – where multiple companies from a given industry need to collaborate to exploit the value of shared fraud patterns.

Cosmian helps you to deploy a very robust and efficient infrastructure to identify those suspicious patterns across multiple entities without ever sharing your own security data.

Benefits

Core Features

Related Use Cases

Confidential Counting of suspicious events.

Confidential Identification of suspicious events.

Secure Computation on Confidential Data Sources.

In most instances, data providers are very reluctant to let algorithms run over their data sources in clear text. Including within the same company, because of the high risk of giving access & manipulating confidential data in clear text – it is very unlikely that one business unit will be granted the authorization to process augmented scoring calculations over another's business unit's confidential client data.

With Cosmian, data providers can now encrypt their own data sources and safely authorize access to third-party algorithms to process their confidential data – algorithms will run over encrypted data, **without ever revealing the underlying data in clear text.**

Benefits

Core Features

Related Use Cases

Confidential data sets are encrypted to enforce data security & privacy.

Confidential data stay encrypted during model execution.

Only authorized third-party can process data join on encrypted, confidential IDs.

Use Cases

Browse our Customers' Use Cases from different industries with similar needs.

Technology

Discover how our Technology is addressing your needs for data security & privacy.

Industries

Across industries, teams elaborate models or programs involving confidential data processing – from internal or third-party sources.

Contact Us

Interested to implement our privacy-by-design solutions?
Contact us

News, Articles, Resources.

How Encryption Powers Data Privacy

La Parole aux start-ups sur Radio Innovation - Cosmian

Documentation

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