Fortanix®

Global information technology and business process services leader solves its **PII data privacy challenge with Fortanix**

Customer Profile

A global information technology, consulting, and business process services company with more than **250,000 employees** located around the world.

PII and Data Privacy Compliance Challenge

The company was facing a growing set of privacy and compliance requirements worldwide, with GDPR an immediate area of concern. With different data types, applications, and databases, the company was struggling to protect the personal information of its employees and contractors, and ensure consistent reporting for compliance, particularly GDPR. The biggest challenges were-

Securing PII-
Protecting the personal information of its large number of employees, consultants, and subcontractors.

Ensuring compliance-
Ensure robust security frameworks and controls, including reporting to meet compliance requirements.

Management of highly dispersed data

Data was spread across multiple databases, on-prem as well as cloud, including production databases such MongoDB and SQL and SAP HANA, Microsoft Azure, and Google Cloud (GCP). There was no centralized control and management of sensitive data.

Secure cloud migration

Majority of workloads were moving to Google Cloud (GCP) that had to be protected and managed. They needed full control of this data, irrespective of the location.

What Were They Looking For?

The company needed a solution that could integrate with existing enterprise applications, provide consistent management, and was cloud agnostic. It was critical to identify a solution that offered data security controls, integrated with existing enterprise applications, and was designed for a cloud-first infrastructure. Capabilities like Transparent Database Encryption (TDE) that can also be combined with additional controls like Tokenization of certain fields of sensitive data was essential. Specific requirements included-

DATA SECURITY CONTROLS FOR ENTERPRISE WORKLOADS

- Ability to tokenize various data types including HR, Payroll, claims etc. to comply with requirements on SAP S4 HANA
- Encryption key management and secure crypto operations
- Ability to combine controls like Transparent Database Encryption (TDE) with Tokenization of certain fields
- Additional capabilities like Bring-Your-Own-Key (BYOK) for Azure and Secrets Management

MANAGEMENT CONSISTENCY

- Accurate and consistent reporting and monitoring to meet compliance
- Single-pane of glass visibility and operational simplicity to manage apps and databases across locations supporting single sign-on

CLOUD-AGNOSTIC

- Ability to BYOK/KMS for GCP data and have greater control over the data and keys, irrespective of its location

What Fortanix Solution was Chosen?

The customer identified and implemented Fortanix Data Security Manager (DSM) software with an initial focus on privacy compliance using TDE for production databases supplemented by tokenization for select critical data fields, such as national identification numbers. This included protecting the personal information of tens of thousands of employees, consultants, and subcontractors. To speed deployment and provide flexibility for future growth, the customer chose to deploy Fortanix software in Azure. The implementation was further expanded to support secrets management and Bring-Your-Own-Key (BYOK) for cloud using the same centrally managed Fortanix solution.

As part of the project, the customer engaged with Fortanix Professional Services to assist in the rapid onboarding of applications to the new security infrastructure. Fortanix Professional Services provides a full range of deployment and implementation support services as well as ongoing technical account management. The high-level design included the following components:

- ✅ **Transparent Database Encryption (TDE) for their production databases (MongoDB and SQL**

- ✅ **Ability to tokenize select fields in SAP HANA like payrolls, and claims as required by GDPR regulations**

- ✅ **Additional capabilities like secrets management, and cloud Bring-Your-Own-Key (BYOK) for Azure**

- ✅ **Centralized management and controls from a single pane of glass**

Why did they choose Fortanix? Key Differentiators

Unified platform with encryption, key management, secrets management and tokenization

Fortanix provides HSMs, key management, shared secrets, and tokenization in a single data protection platform, eliminating the need to maintain and integrate multiple data protection systems

Modern Developer and Cloud Friendly Architecture - Scalable, flexible, and resilient

- The platform scales elastically with high availability and disaster recovery built-in
- A broad set of RESTful APIs and interfaces accelerates internal application development and integration
- Seamless migration to hybrid environments or public cloud

Easy to use management

Fortanix has a simple UI with well-documented APIs that has multi-site clustering, linear scalability and high availability built-in, unlike legacy HSMs and key management solutions.

Always on, proactive support and professional services

Fortanix Professional Services includes highly skilled data security experts providing a full range of deployment and implementation support services as well as ongoing technical account management

The Impact

Fortanix DSM solution has provided the much-needed data security framework for this large global enterprise. The operational and architectural simplicity of the Fortanix platform has helped them create a secure and scalable data security environment across worldwide locations. The solution has helped the company achieve-

Simplified reporting for compliance

Secure migration of workloads to GCP

Confidentiality of the sensitive PII of the massive pool of employees and contractors

About Fortanix

Fortanix® is a data-first multicloud security company solving the challenges of cloud security and privacy. Data is the most precious digital asset of businesses, but this data is spread across clouds, SaaS, applications, storage systems, and data centers. Security teams struggle to track, much less secure it. Fortanix empowers customers to secure all this data with a centralized solution. Its pioneering Confidential Computing technology means data remains protected at-rest, in-motion, and in-use, keeping it secure from even the most sophisticated attacks. For more information, see **www.fortanix.com**

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