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Prominent Telco in Southeast Asia Protects Brand Reputation with Thales CipherTrust Data Security Platform and Luna HSMs

This prominent provider of mobile, broadband, and digital services in Southeast Asia suffered a data breach incident resulting in the compromise of customers' information. So it needed a comprehensive data security solution urgently to protect sensitive customer data in order to restore its credibility.

Challenge

The challenge for this organisation is that it has sensitive customer data across hybrid IT infrastructure. So the chosen data security solution would need to support several use cases to protect sensitive data flowing through local Personal Data Protection Act (PDPA).

Solution

After conducting proof of concept (POC) tests by different vendors, Thales' CipherTrust Data Security Platform stood out as the most robust solution, providing next-generation data protection. The company selected the CipherTrust Platform with Luna Network Hardware Security Modules (HSMs) as the root-of-trust to meet their FIPS 140-2 L1 & L3 requirements.

CipherTrust Data Security Platform

CipherTrust Data Security Platform was selected to ensure that the organisation's data is encrypted, securing a high level of trust and credibility for an exceptional standard of customer satisfaction. It is an integrated suite of data-centric security solutions that unify data discovery and classification, data protection and granular access controls with centralised key management to simplify data security, accelerate time to compliance and significantly reduce risk. The organisation's requirements is met by three of the platform's integrated solutions to provide comprehensive data protection and centralised key management for sensitive data in the cloud and on-premise.

CipherTrust Transparent Encryption with Centralised Key Management

CipherTrust Transparent Encryption was implemented to protect multiple file systems and databases. It delivers data-at-rest encryption with centralised key management, privileged user access control, and detailed data access audit logging. With role-based access control, only authorised users and processes can view encrypted data as plain text, providing a level of security that ensures the privacy of sensitive data. Agents are installed at the operating file system or device layers and encryption and decryption are transparent to all applications that run above the agents. CipherTrust Transparent Encryption is designed to meet worldwide data security compliance and best practice requirements with minimal disruption, effort, and cost.

CipherTrust Application Data Protection

CipherTrust Application Data Protection was selected to simplify and accelerate the process of adding key management and encryption to applications. Protecting data at the application layer can provide the highest level of security, as it can take place immediately upon data creation or first processing and can remain encrypted regardless of its data life cycle stage – during transfer, use, backup or copy. Development options include a comprehensive, traditional software development kit (SDK) for a wide range of languages and operating systems as well as a collection of RESTful APIs for the broadest platform support, so developers and security administrators can select the crypto services that best fulfil the organization's needs.

CipherTrust Tokenization with Dynamic Data Masking

To protect structured data in databases, the customer implemented CipherTrust Tokenization with dynamic data masking. This solution permits the pseudonymisation of sensitive information in databases while maintaining the ability to analyse aggregate data, without the exposure of sensitive data during the analysis or in reports.

Luna Hardware Security Modules

Thales Luna Network Hardware Security Modules (HSMs) were deployed to provide a secure root-of-trust for encryption keys used by CipherTrust, securely storing cryptographic keys inside a hardened FIPS 140-2 Level 3 tamper-resistant device. Thales Luna Network HSMs empower organisations by providing trusted key ownership and control, with full multi-tenancy across on-premises, private, public, hybrid, and multi-cloud environments.

Results

With the deployment of the CipherTrust Data Security Platform, this organisation was able to regain the trust of its customers as a reliable industry player. Built on a modern microservices architecture, the CipherTrust Data Security Platform solution was fully deployed in just four months with the support of partners, immediately protecting and securing customer data with different layers of granular access controls. With CipherTrust Manager as the central management point for the CipherTrust Data Security Platform, administrators can manage the security logs to ensure that customer data is fully protected in an airtight environment. This solution was well-received by the organisation's CISO and IT security team.

Benefits include:

- Securing customer and enterprise information with general encryption to prevent future data breach
- Centralising management of customer data in a secure environment
- Ensuring compliance with local Personal Data Protection Act (PDPA) that governs and safeguards customers' personal data
- Performance and stability of the platform with its high availability