SafeNet and Hitachi Data Systems help organizations meet the challenges of securing growing data centers with confidence. Together, they provide an encryption solution to strengthen and streamline data-at-rest security implementations.

SafeNet Key Management and Hitachi Data Systems Encryption

Easily Scale and Protect Your Data

Introduction

Organizations of all sizes are challenged to address increasing concerns surrounding protection for all data, whether it is stored as a file, a block, or an object. It is now a foregone conclusion that security must permeate every layer of the storage ecosystem for data to be safe. Encryption is integral to any security scheme designed to protect valuable information within the storage layer. However, implementing encryption technologies can also create new sets of challenges, particularly in larger enterprises:

- Processing encryption can slow performance and makes scaling storage more challenging.
- If encryption is deployed with multiple products across disparate departments, key management quickly becomes prohibitively expensive and time consuming.
- Key management is inherently risky.
- Lost, corrupt or stolen keys compromise encrypted data.
- Effective key management requires staff resources and clear protocols.

Solution

SafeNet and Hitachi Data Systems (HDS) have created a solution that meets the challenges of increasing data growth and the security risks surrounding data at rest. Now, organizations can scale their data centers as their data needs grow while strengthening and streamlining their data-at-rest security implementations. The combined solution provides the following offerings:

- **SafeNet KeySecure.** KeySecure is a key management platform that enables security teams to centrally and uniformly manage cryptographic keys across an organization. KeySecure supports the OASIS Key Management Interoperability Protocol (KMIP) standard and secures keys in SafeNet’s Hardware Security Modules (HSM) or hardened virtual security appliances for flexibility in deployment.

- **Hitachi Storage Platforms**
  
  HDS offers Hitachi Virtual Storage Platform, Hitachi Unified Storage VM, and Hitachi Unified Storage 150 with embedded encryption. Performance-friendly encryption from HDS, coupled with its OASIS KMIP support, provides security for data at rest with no impact on performance and easy integration into complex key management environments.

Key Benefits

By implementing this SafeNet and HDS solution, organizations can:

- **Securely store and manage data.** The transparent and performance-friendly encryption capability of HDS platforms uses AES 256 XTS to provide an extra measure of protection. HDS platforms also provide confidentiality for lost, stolen or misplaced media that contains sensitive information. Additionally, the platforms offer enhanced key management with KeySecure to protect data. When using this solution, data is stored efficiently and securely while remaining highly available.

- **Grow confidently.** With HDS storage, organizations can:
  
  - Consolidate storage infrastructure with best-in-class availability and performance.
  - Deploy storage for all data types and easily grow to meet service level objectives for critical business applications.
  - Simplify operations with easy-to-use management using a single interface for optimal efficiency.

With KeySecure, administrators can grow IT operations confidently, knowing that their encryption keys are safe in a hardware appliance and that security duties are separated.
Operate more efficiently. Rack-optimized accelerated flash drives require lower power consumption and provide higher density per rack. Hitachi Command Suite enables faster and simpler management across file and block workloads. Streamlining the use of encryption and key management with KeySecure’s central appliance saves staff resources. Across the different facets of an enterprise, this solution saves valuable time, money and space.

About the Solution Creators

SafeNet

Founded in 1983, SafeNet, Inc., is one of the largest information security companies in the world. SafeNet is trusted to protect the most sensitive data for market-leading organizations around the globe. The company’s data-centric approach focuses on the protection of high-value information throughout its lifecycle, from the data center to the cloud. More than 25,000 customers across commercial enterprises and government agencies trust SafeNet to protect and control access to sensitive data, manage risk, ensure compliance, and secure virtual and cloud environments.

Hitachi Data Systems

Hitachi Data Systems offers information technologies, services and solutions that help enterprises innovate with information, reduce IT costs, improve agility, and make a difference in the world. HDS brings its customers compelling returns on investment (ROI), unmatched returns on assets (ROA), and demonstrable business impact.

Next Steps

Put the combined SafeNet and HDS solution to work for your organization. Start reducing costs and improving performance while gaining the scalability to contend with your organization’s accelerating data growth. To learn more, visit www.HDS.com/partners/alliance-partners-and-program/safenet.html.

SOLUTION FEATURES

Top-of-the-line security. SafeNet KeySecure stores certificates and cryptographic keys in a hardware appliance, avoiding the inherent vulnerabilities of software-stored cryptographic materials. Additionally, security teams can centralize key management and institute policies at a granular level for more effective and consistent policy administration across the organization.

Simplified and integrated key management. Hitachi Data Systems storage platforms provide a media-agnostic encryption capability to protect data at rest on internal storage media, with no impact to performance. Additionally, administrators can leverage standards-based key management integration for things like key generation, escrow and recovery.

Separation of duties. KeySecure and HDS support segmented key ownership and management based on individuals or group owners. This approach is perfect for protecting sensitive material against unauthorized access from staff.

Figure 1. SafeNet KeySecure and Hitachi Virtual Storage Platform Interoperability

Hitachi Data Systems Global Solution Services (GSS) incorporates the industry’s best people, products, tools and methodologies to help you transform your data center and reach your continuous cloud infrastructure milestones. GSS Consultants can help you plan, design, install, implement, transition, migrate, integrate, manage and optimize storage infrastructure solutions that meet your needs.

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