## ADVANCED ENCRYPTION WITH COMPREHENSIVE KEY MANAGEMENT

> Avoid vendor encryption lock-in and ensure the data mobility you need while you efficiently and securely spread workloads and data across multiple cloud vendors, including Amazon Web Services, with centralized, independent encryption management

> Take secure advantage of Amazon Key Management Services with FIPS 140-2 Level 3 certified HSMs

> Identify attacks faster with data access logging to industry-leading SIEM applications

> Reduce or eliminate risks arising from compromised credentials with advanced encryption including privileged user access controls

> Gain the security, visibility and auditability you require for controls and compliance by creating safe data enclaves in Amazon Simple Storage Service (S3)

‹Thales e-Security›

THALES E-SECURITY SOLUTIONS FOR AMAZON WEB SERVICES

Secure Workloads Across Hybrid Clouds Including Amazon Web Services
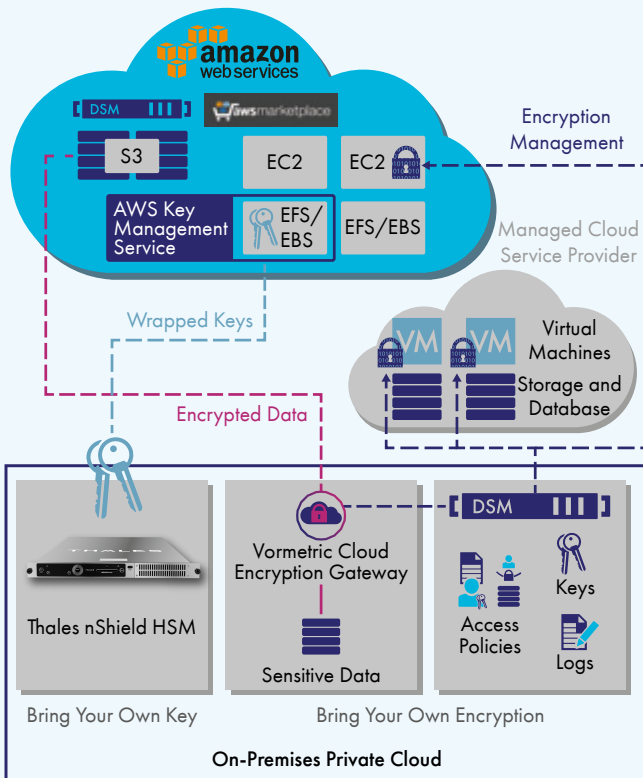
Information technology workloads in Amazon Web Services (AWS) can offer convenience and cost savings. However, you still need to follow security, privacy and compliance rules, as well as best practices for protecting data. Further, you need rapid data mobility across all clouds you use and those in your future, a need which can be compromised with cloud-vendor-specific encryption solutions. Thales e-Security solutions help you meet these needs with advanced encryption and centralized key management giving you protection and control of data stored on your premises, Amazon Web Services, and other cloud providers.

Customers who prefer the AWS Key Management Service (KMS) can manage KMS encryption keys with Thales nShield hardware security modules.

THALES E-SECURITY SOLUTIONS FOR AMAZON WEB SERVICES

ADVANCED ENCRYPTION FOR AMAZON WEB SERVICES WORKLOADS AND BEYOND

If you're 100% Amazon Web Services-based with stringent internal or industry data security controls, or if you're running hybrid clouds with data distributed across your on-premises private cloud, multiple cloud providers, and on Amazon Web Services (AWS), you need an advanced encryption solution. Vormetric Transparent Encryption from Thales e-Security protects your files and databases stored anywhere, including AWS, without any changes to applications, databases, infrastructure or business practices. Vormetric Transparent Encryption for Amazon Web Services enables you to:

> Strengthen data security with controls against unauthorized access based on granular, least-privileged user access policies, including user identity (including for administrators with root privileges), process, file type and time of day, among many others

> Accelerate breach detection and satisfy compliance mandates with detailed file access logs. You can direct the logs to the security information and event management (SIEM) solution of your choice

> Attain a faster return on investment with a non-intrusive, flexible implementation. Encryption agents operate on AWS EC2 compute instances or any other server accessing storage, and are available for many Windows versions and Linux distributions

CENTRALIZED, SECURE KEY MANAGEMENT

The Vormetric Data Security Manager provides centralized key, policy and log management for Vormetric Transparent Encryption for Amazon Web Services. The Vormetric Data Security Manager is available as a FIPS 140-2 Level 2 or 3 physical appliance or a FIPS 140-2 Level 1 virtual appliance. The physical appliance is appropriate for your on-premises locations to manage encryption agents worldwide across any cloud provider. And you can find the virtual appliance on the AWS Marketplace!

SECURE AMAZON S3

Create safe data enclaves in Amazon Simple Storage Service (S3) with the Vormetric Cloud Encryption Gateway, which encrypts files and logs file access. You gain the visibility and control you need for security and compliance rules governing sensitive data. Vormetric Cloud Encryption Gateway features include:

> Detailed visibility and auditability: The Vormetric Cloud Encryption Gateway gives administrators detailed visibility into data access, as well as dashboards with intuitive insights into usage of Amazon S3

> Intelligent risk detection: The Vormetric Cloud Encryption Gateway can scan Amazon S3 cloud storage environments, discover unencrypted files that violate security policies and automatically encrypt them

BRING YOUR OWN KEYS TO AWS

Thales nShield hardware security modules (HSMs) combine field-proven, FIPS 140-2 Level 3 tamper-resistant hardware with a unique software architecture enabling industry-leading scalability and key management convenience. nShield HSMs let you bring your own keys to AWS Key Management Services (KMS), giving you control over the encryption keys that protect your sensitive cloud data. With nShield BYOK for AWS, your on-premises nShield HSM generates, stores, wraps, and exports keys to KMS on your behalf. nShield HSMs are available in three form factors: network attached, PCIe card, and USB-attached, to suit your application requirements and performance needs. nShield BYOK for Amazon Web Services gives you the following advantages:

> Safer key management practices combined with cloud benefits of scale, cost and convenience

> Greater control over keys—you drive key generation, storage, and export of keys used in AWS KMS

> Stronger key generation using nShield entropy and FIPS-certified hardware

> Consistent on-premises key management for the leading public cloud providers including Microsoft Azure and Google Cloud Platform

FULFILL YOUR DATA PROTECTION REQUIREMENTS

Thales e-Security simplifies securing your Amazon Web Services workloads to help you achieve compliance with internal, government, and industry data security regulations. Vormetric data security products operate seamlessly on workloads in AWS, managed service providers and on your premises delivering centralized policy and key management. And nShield BYOK for AWS Key Management Services gives you control over encryption to achieve compliance and safeguard your data.

TRY IT YOURSELF

Create your own Vormetric Transparent Encryption for AWS laboratory at **testdrive.vormetric.com**

LEARN MORE

Visit us at **www.thalesesecurity.com** to learn how our advanced data security solutions and services deliver trust wherever information is created, shared or stored.

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