THALES

www.thalesesecurity.com

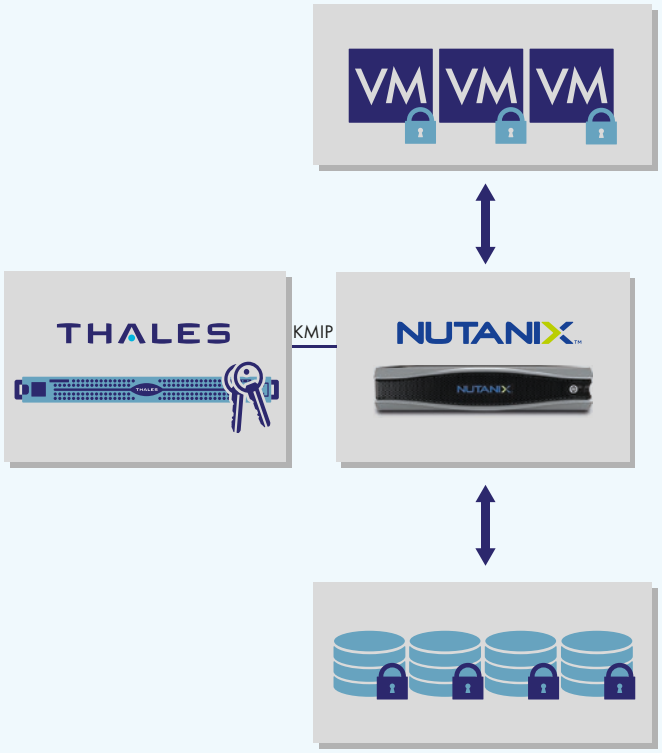
CONSOLIDATED ENTERPRISE ENCRYPTION KEY MANAGEMENT AND CERTIFICATE STORAGE WITH HIGH ASSURANCE SECURITY

- Protect encryption keys from unauthorized access
- Deliver consistent encryption policy implementation
- Reduce associated training and maintenance costs
- Provide a certified FIPS 140-2 Level 3 root of trust Comply with data-at-rest encryption requirements

NUTANIX™

‹Thales eSecurity›

NUTANIX AND THALES DELIVER SECURE DATA MANAGEMENT AND COMPLIANCE



The Thales Vormetric Data Security Platform centralizes and secures encryption keys and certificates used by Nutanix hyper- converged appliance.

THE PROBLEM: LOST, STOLEN, OR COMPROMISED DATA DIRECTLY IMPACTS YOUR BUSINESS

The truth is that for most enterprises today, data is the life of their business, and their most important and valuable asset. Data breaches can have devastating consequences. From loss of customer confidence and damaged reputation, to significant remediation and liability costs, compromised data can, and has put enterprises out of business. Maintaining the security of your data is therefore of utmost importance.

THE CHALLENGE: ENABLING ROBUST SECURITY WITHOUT AFFECTING OPERATIONAL PERFORMANCE

Mechanisms designed to protect the confidentiality and integrity of sensitive data can rob valuable compute cycles to perform encryption and decryption. This can introduce high latencies, or degraded bandwidth and/or IOPS performance. Leveraging data at rest encryption from Nutanix can ensure no adverse impact to system performance. It is important to properly protect and manage the cryptographic keys that enable this process.

NUTANIX AND THALES DELIVER SECURE DATA ACCESS AND COMPLIANCE

THE SOLUTION: NUTANIX ENTERPRISE CLOUD OS SOFTWARE AND VORMETRIC DATA SECURITY MANAGER (DSM) FROM THALES eSECURITY

The Nutanix Enterprise Cloud OS software provides strong data protection by enabling the encryption of user and application data in compliance with FIPS 140-2 Standards. Data at rest can be encrypted through the use of self-encrypting drives (SED) or via native software-based encryption. When used with Vormetric DSM, the combined solution provides FIPS certified robust key management and role separation designed to meet the most stringent security requirements. The non-disruptive encryption solution can provide regulated enterprises that need to protect their personally identifiable information (PII) and other sensitive data, with comprehensive, cost-effective data security.

Vormetric DSM uses certificates to authenticate Nutanix nodes for system level security. Nutanix software generates new encryption keys, which are then uploaded to the DSM. In the event of a power cycle or host reboot, the Nutanix software retrieves the keys from the Vormetric DSM and uses them to unlock the encrypted volumes. To meet site-specific security policies, keys can be quickly reprogrammed. Additionally, administrators can use the Crypto Erase feature on Nutanix to instantly erase all data on the SED drives while generating a new symmetric encryption key. The security mechanisms are designed to enable compliance with data-at-rest encryption requirements set forth in HIPAA, PCI DSS and SOX standards.

WHY USE VORMETRIC DSM WITH NUTANIX?

Vormetric DSM centralizes third party encryption keys and stores certificates securely. The platform provides high availability, standards-based enterprise encryption key management for Transparent Database Encryption (TDE), KMIP compliant devices, and offers vaulting and inventory of certificates. Consolidating enterprise encryption key management delivers consistent policy implementation between systems, and reduces training and maintenance costs.

By deploying Vormetric DSM and streamlining management of associated cryptographic keys, organizations can ensure that encrypted data is protected against unauthorized access. The security solution implements a two-factor authentication mechanism to further safeguard data against theft, and offers a single, centralized platform for managing cryptographic keys and applications.

The Vormetric DSM is available as either a hardware or a virtual appliance. The hardware appliance is certified to FIPS 140-2 Level 2, and when equipped with a Thales nShield hardware security module (HSM), it is certified to FIPS 140-2 Level 3. The virtual appliance is certified to FIPS 140-2 Level 1.

The use of Vormetric DSM:

- Reduces downtime by providing high availability and proactive notifications of certificate and encryption key expiration
- Leverages OASIS PKCS#11 and KMIP APIs for programmatic encryption key management and bulk key vaulting
- Supports multitenant operations with role-based administration for compartmentalized management of data security policies, data encryption keys, and audit logs
- Allows easy centralized and simplified use with a compelling ROI/TCO

THALES

Thales eSecurity is the leader in advanced data security solutions and services delivering trust wherever information is created, shared, or stored. Security solutions ensure that critical data is both protected and trusted in any deployment on-premises, in the cloud, in data centers, or in big data environments without sacrificing business agility. Security professionals around the globe rely on Thales to confidently accelerate their organization's digital transformation. Thales eSecurity is part of Thales Group.

NUTANIX

Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications.

Learn more at **www.nutanix.com** or follow us on Twitter **@nutanix**.

For more detailed technical specifications, please visit **www.thalesesecurity.com** or **www.nutanix.com**

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