

# Secure Data Access & Compliance with Nutanix & Vormetric

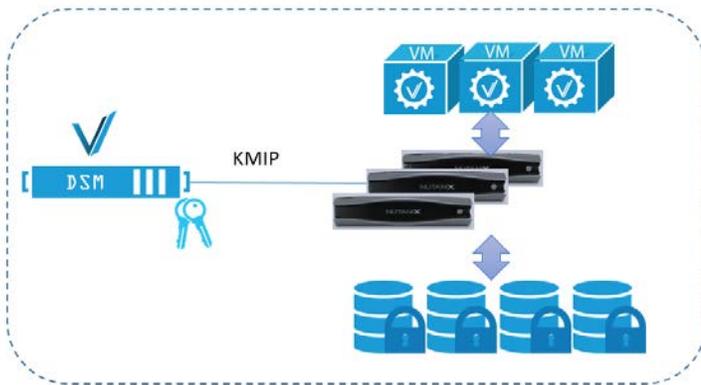
Let's face it, your data is the life of your business. If it became lost, stolen or compromised, it would directly impact the business. The truth is that for most businesses, their data is their most important and valuable asset which is why maintaining its security is of utmost importance.

## The Solution: Nutanix and Vormetric Key Management

Nutanix provides strong data protection by encrypting user and application data to a level of FIPS 140-2 Level 2 compliance. Data at rest encryption is delivered through self-encrypting drives (SED) that are factory-installed in the Nutanix hyper-converged appliance. Vormetric's Data Security Manager provides FIPS certified robust key management and role separation to meet most security requirements. The non-disruptive encryption solution provides comprehensive, cost-effective data security for companies that have stringent data protection regulations covering the management of personally identifiable information (PII) and other sensitive information.

Vormetric's Data Security Manager (DSM) uses certificates to authenticate Nutanix nodes for system level security. The self-encrypting drives generate 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 drives.

Security keys can be instantly reprogrammed to meet site-specific security policies. Additionally, administrators can use Crypto Erase to instantly erase all data on the drive while generating a new symmetric encryption key. These security mechanisms enable compliance with data-at-rest encryption requirements set forth in HIPAA, PCI DSS and SOX standards.



Vormetric Data Security Platform centralizes 3rd party encryption keys and stores certificates securely. The Vormetric Data Security 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, reduces training and maintenance costs. By deploying Vormetric, organizations can ensure that encrypted data is protected against unauthorized access by streamlining the management of associated keys. The 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.

## Security without Impacting Performance

Leveraging hardware-based data at rest encryption ensures no adverse impact to system performance and the Solution does not rob compute cycles to perform encryption/decryption or introduce high latencies, or degraded bandwidth and/or IOPS performance.

## About Vormetric

Trusted by businesses and governments for over a decade, Vormetric's data-centric security architecture is currently busy securing the data of over 1,500 global customers—including 17 of the Fortune 30. Vormetric addresses industry compliance mandates and government regulations globally by securing data in traditional on-premise, virtual, Cloud and Big Data infrastructures. Learn more at [www.Vormetric.com](http://www.Vormetric.com)

## About Nutanix

Nutanix delivers invisible infrastructure for next-generation enterprise computing, elevating IT to focus on the applications and services that power their business. By natively converging server and storage resources into the turnkey Xtreme Computing Platform that is easy to deploy and manage, Nutanix has helped large and small IT organizations simplify their data center and gain predictable performance, linear scalability, and cloud-like infrastructure consumption. Learn more at [www.nutanix.com](http://www.nutanix.com)



## Key Benefits

Simplified key management — Consolidate enterprise encryption key management & certificate storage

FIPS 140-2 certified — The [Vormetric Data Security Manager](#) is a Hardware Security Module (HSM) and is available with Level 2 and Level 3 certification

Reduce downtime — High availability and proactive notifications of certificate and encryption key expiration reduces application and user downtime

Standard API Support — Leverage OASIS PKCS#11 and KMIP APIs for programmatic encryption key management and bulk key vaulting

Multitenant operations — Role-based administration for compartmentalized management of data security policies, data encryption keys, and audit logs

Centralized & Simplified – Allowing for ease of use with a compelling ROI/TCO

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