THALES

NetApp®

NetApp and Thales Secure Unified Data Management Solution

The Challenge

Accessing and protecting sensitive and diverse data resources in order to enhance decision making and compete more effectively.

Enterprises today have at their disposal vast amounts of data residing across diverse distributed environments. Managing this data so that it can provide business intelligence and insight to help decision makers is critically important. Enabling a strategy to migrate from legacy to state-of-the-art storage capabilities that reduce costs and maximize performance requires specialized solutions that address not only operational needs, but also vital security requirements.

Protecting the confidentiality, integrity and availability of stored data across different infrastructures and ensuring that access is controlled becomes a vital function. Cryptographic keys that underpin digital signing and encryption functions employed to protect data must also be safeguarded and managed in a trusted manner for security and compliance with regulations.

The Solution

Leveraging the NetApp ONTAP 9 Data Management Software and Vormetric Data Security Manager (DSM) from Thales provides a secure unified data management capability. Simplifying the transition from legacy storage systems to modern data centers, the solution provides simple, flexible, and robust data management, while also capitalizing on storage efficiencies that address operational needs, with dedicated key management and encryption to address increasing security concerns. ONTAP 9 enables the enterprise to perform critical tasks such as assigning, promoting, and retiring storage resources without interrupting applications and business operations. Storage controllers and disk shelves can even be replaced without disrupting operations. For security, NetApp offers encryption features that protect data at rest.

Vormetric DSM establishes strong controls around sensitive data, offering robust key management capabilities. With Vormetric Key Management (VKM), encryption keys from disparate sources across the enterprise are managed from a robust, standards-based platform. This simplifies the administrative

HIGHLIGHTS

- Deploys across hybrid environments including flash, disk, and cloud

- Scales to meet ever-changing performance needs

- Centrally manages on-premises and cloud resources

- External key management provides enhanced security and separation of duties

- FIPS 140-2 compliant, HSM-integrated, and standards-based implementation of KMIP

challenges around key management to secure and provision keys to only authorized encryption services.

The joint solution:

- Consolidate key management functions for ONTAP data encryption
- Provides a FIPS 140-2 certified key management solution

- Consolidated reports for compliance and audit through centralized reporting
- High availability, redundancy, and automatic backup of keys

The Vormetric DSM leverages standards based Key Management Interoperability Protocol (KMIP) for ease of configuration and deployment.
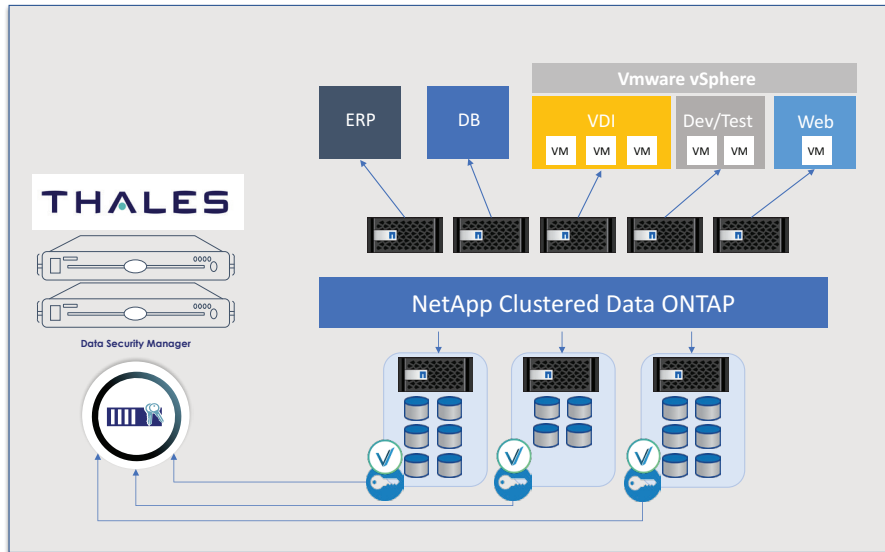

DIAGRAM 1: INTEGRATED KEY MANAGEMENT ARCHITECTURE WITH VORMETRIC DSM FROM THALES.

SOLUTION COMPONENTS

NetApp ONTAP 9

Next generation data management software that simplifies enterprise data storage configuration and transition to modern data center environments. The software enables enterprises to build a single data fabric that spans across available storage infrastructures including flash, disk, and cloud. Providing increased visibility and control, ONTAP 9 unifies customers' entire storage infrastructure with robust certificate-based authentication for access control and built-in encryption for data confidentiality. Using standards-based protocols, the solution deploys with external key manager for enhanced security.

Vormetric Data Security Manager (DSM) from Thales

Dedicated key management solution that centralizes and simplifies the provisioning of encryption keys. The key manager enables enterprises to meet new security mandates and compliance requirements with unprecedented efficiency. When integrated with NetApp ONTAP 9, Vormetric DSM enhances security, enabling FIPS 140-2 compliance. Enabling both on-premises and cloud-based deployments, DSM can also be deployed in redundant configurations, providing high availability of keys to support critical applications.

ABOUT THALES

Thales is a leader in advanced data security solutions and services delivering trust wherever information is created, shared, or stored. Enabling customers to accelerate their digital transformation strategies without sacrificing business agility, Thales protects critical data on-premises, in the cloud, and in virtual environments.

ABOUT NETAPP

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven