

VORMETRIC TRANSPARENT ENCRYPTION

Safeguard Data Everywhere, and Achieve Compliance

CHALLENGE: SAFEGUARDING MORE DATA, IN MORE ENVIRONMENTS, AGAINST MORE THREATS

Adaptation is a key job function for IT and security teams in today's organizations. Sensitive data continues to migrate to a broader set of environments, including cloud deployments, big data platforms, virtualized systems, and more. Compliance policies and regulatory mandates continue to grow more stringent. At the same time, the teams must guard against increasingly sophisticated cyber attacks, and the continuous threats posed by criminals that have stolen privileged user credentials.

To adapt to these expanding demands, IT and security professionals must leverage technologies that offer a strong mix of security, implementation flexibility, and operational efficiency.

SOLUTION: VORMETRIC TRANSPARENT ENCRYPTION

Vormetric Transparent Encryption enables organizations to establish strong controls around sensitive data with maximum efficiency. Vormetric Transparent Encryption delivers data-at-rest encryption for structured databases and unstructured files with centralized key management, privileged user access control, and security intelligence to proactively meet compliance reporting requirements. The solution can be deployed without any changes to applications, databases or infrastructure so security organizations can implement encryption with minimal disruption, effort, and cost.

Vormetric Transparent Encryption delivers these key advantages:

- **Continuous protection.** Unlike other encryption technologies, protection does not end after the encryption key is applied. Vormetric Transparent Encryption protects against unauthorized access by users and processes, and creates audit logs of all access attempts.
- **Granular controls.** Vormetric Transparent Encryption enforces granular, least-privileged user access policies that protect data from APT attacks and misuse by

KEY FEATURES

- Comprehensive data security across databases and all file types
- Broad server platform support, including Windows, Linux, and UNIX operating systems
- Flexible deployment across physical, virtual, cloud, and big data environments
- Easy to deploy—no application, database or infrastructure changes required
- High performance encryption
- Strong encryption and key management
- Privileged user access control
- Security intelligence and visibility to meet compliance requirements

KEY BENEFITS

- Protects data-at-rest wherever it resides
- Transparent to users, applications, and storage infrastructure
- Simplify data security administration
- Strengthen compliance with security policies and regulatory mandates
- Help guard against threats from APTs and malicious insiders

privileged users. Specific policies can be applied by user (including for administrators with root privileges), process, file type, time of day, and other parameters.

- **Security intelligence.** Vormetric Transparent Encryption provides detailed data event logs to satisfy compliance and forensic reporting, and enable additional data security analytics with popular security information and event management (SIEM) systems.

- **Flexible implementation.** Vormetric Transparent Encryption agents run at the file system level or volume level on a server. The agent is available for a broad selection of Windows, Linux, and UNIX platforms, and can be used in physical, virtual, cloud, and big data environments— regardless of the underlying storage technology.

- **Flexible, streamlined administration.** All policy and key administration is done through the Vormetric Data Security Manager, which offers APIs and Web-based management interfaces that makes policy creation easy.

OPTIONAL FEATURES FOR COMPREHENSIVE ENCRYPTION COVERAGE

- **Vormetric Live Data Transformation Extension** adds zero-downtime encryption deployment and encryption key rotation to the Vormetric Transparent Encryption feature set with a simple upgrade. A database or file system can be used normally while it is undergoing encryption.
- **Vormetric Transparent Encryption Docker Extension** brings the power of Vormetric Transparent Encryption into Docker environments, enabling policy-based encryption, access controls and data access audit logging on a per container basis for information stored within Docker containers, or accessed from Docker

ADVANCED CAPABILITIES THAT DELIVER OPTIMAL SECURITY AND PERFORMANCE

Vormetric Transparent Encryption delivers these key capabilities:

- **Non-intrusive implementation.** With agent operation at the file system or volume level, encryption occurs transparently, without requiring changes to your applications, infrastructure, or business practices.
- **Scalability and performance.** Distributing Transparent Encryption agents across the server infrastructure delivers scalability and eliminates the bottlenecks and latency that plague proxy-based solutions. Vormetric Transparent Encryption offers maximum utilization of native hardware encryption capabilities, such as Intel AES-NI, AMD AES-NI, and SPARC encryption, to minimize computational costs and deliver optimal performance.
- **Strong encryption.** Vormetric Transparent Encryption only employs robust, standard-based encryption protocols, such as Advanced Encryption Standard (AES) for data encryption and elliptic curve cryptography (ECC) for key exchange. The agent is FIPS 140-2 Level 1 validated.

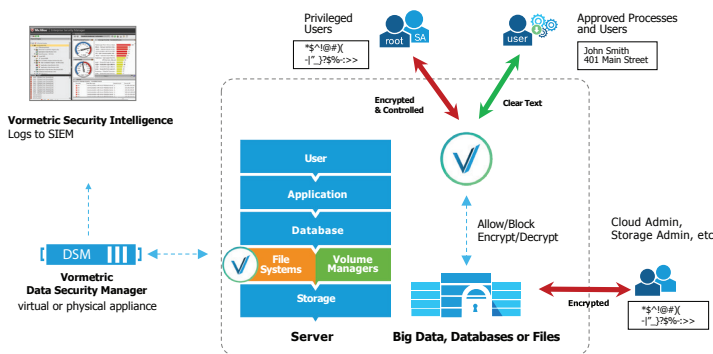
VORMETRIC TRANSPARENT ENCRYPTION: SOLUTION ARCHITECTURE

Vormetric Transparent Encryption deployments consist of two Vormetric products: Vormetric Transparent Encryption agents and the Vormetric Data Security Manager. The agents can be deployed across different operating systems across many different environments, however, policy and key management is always centralized with the Data Security Manager.

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



Vormetric Transparent Encryption solution consists of VTE agents and Data Security Managers.

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