

# VORMETRIC TRANSPARENT ENCRYPTION

DATA-AT-REST ENCRYPTION, PRIVILEGED USER ACCESS CONTROL AND SECURITY INTELLIGENCE LOGS

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

Sensitive data continues to make it into a broader set of environments, including cloud deployments, big data platforms, virtualized systems, and more. The policies and regulatory mandates in effect continue to grow more stringent. At the same time, these groups have to guard against more sophisticated cyber attacks, and the continuous threats posed by users that have stolen privileged user credentials.

To adapt to these expanding demands, IT and security professionals have to leverage technologies that offer a strong mix of security, implementation flexibility, and operational efficiency—and that's exactly what they get from Vormetric Transparent Encryption.

## SOLUTION: VORMETRIC TRANSPARENT ENCRYPTION

With Vormetric Transparent Encryption, organizations can establish strong controls around their sensitive data, and do so with maximum efficiency. Vormetric Transparent Encryption delivers data-at-rest encryption with centralized key management, privileged user access control, and security intelligence logs to proactively meet compliance reporting requirements for structured databases and unstructured files. 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, this solution's protection does not end after the encryption key is applied. Vormetric Transparent Encryption continues to enforce policies that protect against unauthorized access by users and processes, and creates audit logs of all access attempts.
- **Granular controls.** The product enforces granular, least-privileged user access policies that protect data from APT attacks and misuse by 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 logs.** The solution provides detailed data event logs to satisfy compliance, forensic research, and enable additional data security analytics with popular security information and event management (SIEM) systems.
- **Flexible implementation.** Vormetric Transparent Encryption is an agent that runs 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.



## KEY FEATURES

- Comprehensive data security across databases and all file types
- Broad server platform support: Windows, Linux, and UNIX
- 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
- Guard against threats from APTs and malicious insiders

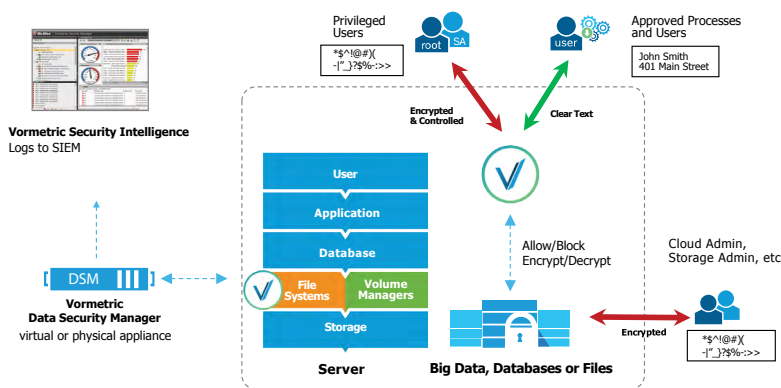
## ADVANCED CAPABILITIES THAT DELIVER OPTIMAL SECURITY AND PERFORMANCE

Vormetric Transparent Encryption delivers these key advantages:

- **Non-intrusive implementation.** The agent is deployed at the filesystem level so your organization can implement encryption transparently, without having to make changes to your applications, infrastructure, or business practices.
- **Scalability and performance.** Vormetric Transparent Encryption features agents that are distributed across the server infrastructure. As a result, the product 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, IBM Power 8 Cryptographic Coprocessor, 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.
- **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. The Data Security Manager is available with Common Criteria and FIPS 140-2 certification.

## SOLUTION ARCHITECTURE

Vormetric Transparent Encryption deployments consist of two Vormetric products: Vormetric Transparent Encryption agents and 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.



*Vormetric Transparent Encryption encrypting data, enforcing access policies, and capturing security intelligence logs.*



## ABOUT VORMETRIC

Vormetric's comprehensive high-performance data security platform helps companies move confidently and quickly. Our seamless and scalable platform is the most effective way to protect data wherever it resides—any file, database and application in any server environment. Advanced transparent encryption, powerful access controls and centralized key management let organizations encrypt everything efficiently, with minimal disruption. Regardless of content, database or application—whether physical, virtual or in the cloud—Vormetric Data Security enables confidence, speed and trust by encrypting the data that builds business. Please visit: [www.vormetric.com](http://www.vormetric.com) and find us on Twitter @Vormetric.

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