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THALES

Pure Storage and Thales eSecurity

Delivering secure & efficient storage

Simple, agile, and secure

Key benefits:

- Achieve compliance with data security regulatory mandates for data-at-rest by securing files with encryption, access controls and data access audit logging
- Secure data while maximizing flash storage efficiencies and performance through key features such as compression and deduplication
- Simplify data security administration with centralized key management, encryption and access policies
- Easily implement Privileged Access Management controls at a granular level that enable administrators to work as usual, (secure, control, manage and monitor privileged access to critical assets), while never exposing the sensitive data

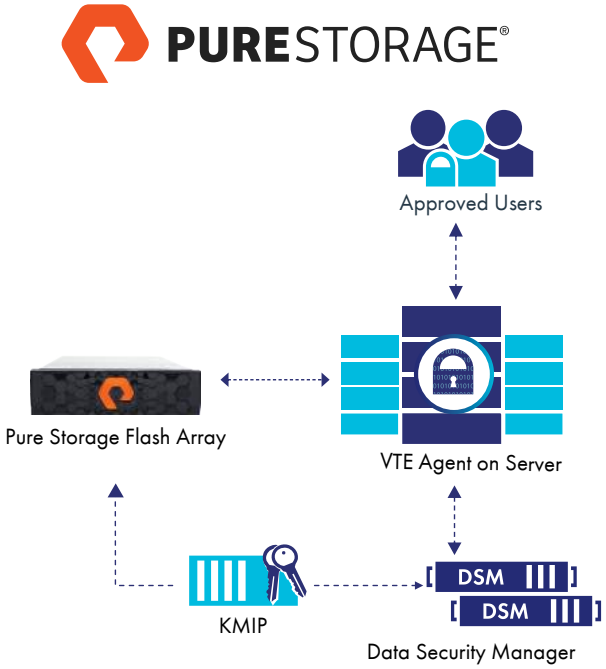
Encryption and efficient storage

The problem: enterprises need fast, efficient storage that's secure

In today's reality of enterprise digital transformation, the exploding volume of data being created and utilized is increasing demands on every organization's ability to control storage costs, expand capacity, and maintain or increase agility. Flash storage has transformed enterprise storage in data centers, offering unique characteristics that enable higher performance, more efficiency, increased agility, and greater reliability. However, securing enterprise data has often required a tradeoff with storage efficiency.

The challenge: delivering efficient data storage that's secure

Pure Storage FlashArray delivers consistent sub-millisecond latency with 10:1 average total storage efficiency and greater than 99.9999% availability, for an ideal enterprise storage solution that serves as a catalyst for both IT and business transformation. However, as data grows exponentially, the need to secure sensitive data becomes more acute. Data encryption is the most effective mechanism for securing sensitive data, but until now encryption and storage efficiency technologies like data compression and deduplication have been mutually exclusive.



Pure Storage and Thales eSecurity deliver efficient and secure storage

The Pure Storage FlashArray delivers the performance of NVMe with the simplicity of a consumer appliance. Included with every FlashArray is the Evergreen storage subscription, advanced software-defined data management capabilities (including array-based snapshots and cloning), the ability to deliver 0 RTO with ActiveCluster, and hybrid cloud capabilities with Cloud Data Services. Whether accelerating transactional databases or simplifying a hybrid cloud at scale, the rich data services and effortless administration of FlashArray makes enterprise storage something organizations simply don't need to worry about anymore.

The combination of Pure Storage FlashArray and Vormetric Transparent Encryption for Efficient Storage delivers an industry first; the speed, efficiency and agility of all flash storage merged with the security and integrity of data encryption. Data in Pure Storage FlashArray can be encrypted, compressed, and deduplicated, setting a benchmark for efficient secured storage. With Pure Storage FlashArray and Vormetric Transparent Encryption for Efficient Storage, users no longer need to make the choice between data security or storage efficiency.

Why use Vormetric Transparent Encryption for Efficient Storage and Vormetric key management with Pure Storage FlashArray?

Vormetric Transparent Encryption for Efficient Storage provides a high degree of security for data stored on Pure Storage FlashArray by encrypting data while retaining critical storage efficiencies, such as deduplication and compression. Access policies are set and encryption keys are defined by Vormetric Data Security Manager, which utilizes KMIP, for centralized key management.

Vormetric Transparent Encryption and Data Security Manager include the following key features:

- Non-intrusive and easy to deploy. Vormetric Transparent Encryption agents are deployed on servers at the file system or volume level and support both local disks as well as cloud storage environments like Amazon S3 and Azure Files, enabling encryption and access control without requiring changes to applications, infrastructure, systems management tasks or business practices.
- Vormetric Transparent Encryption for Efficient Storage only employs strong, standard-based encryption protocols, such as the Advanced Encryption Standard (AES) for data encryption and elliptic curve cryptography (ECC) for key exchange. The joint solution can be enabled to support FIPS 140-2 Level 1, 2, and 3.
- The solution provides a single, centralized management interface for cryptographic keys and applications.
- It offers high availability and standards-based enterprise encryption key management
- It continuously enforces policies that protect against unauthorized access by users and processes, as well as creating detailed data access audit logs of all activities.
- It applies granular, least-privileged user access policies that protect data from external attacks and misuse by privileged users.
- The DSM supports KMIP versions 1.0-1.4 enabling secure key management for native encryption solutions.

About Thales eSecurity

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing amount of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

About Pure Storage

Pure Storage helps companies push the boundaries of what's possible. Pure Storage's end-to-end data platform — including FlashArray, FlashBlade and its converged offering with Cisco®, FlashStack™ — is powered by NVMe, innovative software and is natively hybrid. With Pure Storage's industry-leading, Satmetrix-certified NPS score of 86.6, Pure Storage customers are some of the happiest in the world, and include organizations of all sizes, across an ever-expanding range of industries.

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

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