THALES

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ADVANCED ENCRYPTION WITH COMPREHENSIVE KEY MANAGEMENT

- Avoid vendor lock-in and ensure the data mobility you need across multiple cloud vendors with centralized encryption management including multi-tenancy and strict separation of duties
- Efficiently fulfill NIST 800-53, FedRamp, and DHS CDM Phase 2 & 3 initiatives and regulations
- Identify attacks faster with data access logging to industry-leading SIEM applications
- Reduce or eliminate risks arising from compromised credentials with privileged user access controls
- Architect applications for the cloud with built-in security using vaultless tokenization with dynamic data masking
- Take secure advantage of the Microsoft Azure Key Vault Service with FIPS 140-2 Level 3 certified Hardware Security Modules (HSMs)

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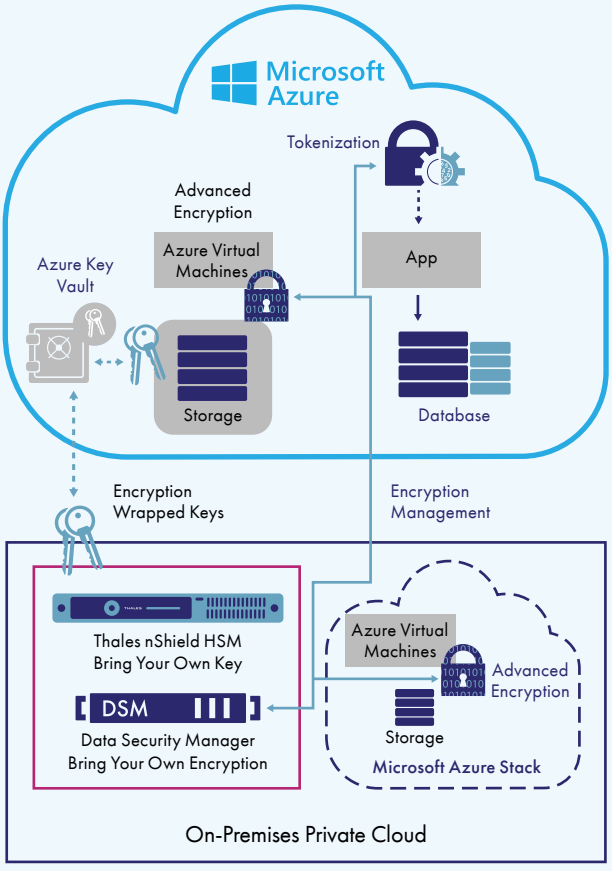
THALES SOLUTIONS FOR MICROSOFT AZURE IN THE FEDERAL GOVERNMENT



SECURE WORKLOADS ACROSS HYBRID CLOUDS INCLUDING MICROSOFT AZURE STACK

Deploying information technology workloads across hybrid clouds that include both Microsoft Azure and Microsoft Azure Stack can offer convenience and cost savings. However, you still need to follow security, privacy and compliance rules, as well as best practices, for protecting data. Further, you need rapid data mobility across all clouds you use and those in your future, a need which can be compromised with cloud-vendor-specific encryption solutions. Thales eSecurity solutions help you meet these needs with multi-tenant advanced encryption solutions with strict separation of duties and centralized key management giving you protection and control of data stored in Microsoft Azure Stack on your premises, Microsoft Azure, and other cloud providers.

Customers using Azure Storage Encryption can manage Azure Key Vault encryption keys with Thales nShield hardware security modules.

Microsoft Azure

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THALES SOLUTIONS FOR MICROSOFT AZURE IN THE FEDERAL GOVERNMENT

ADVANCED ENCRYPTION FOR MICROSOFT AZURE STACK WORKLOADS AND BEYOND

If you're 100% Microsoft Azure-based with stringent federal government data security controls, or if you're running hybrid clouds with data distributed across your on-premises Microsoft Azure Stack, multiple cloud providers, and on Microsoft Azure, you need an advanced encryption solution. Vormetric Transparent Encryption from Thales eSecurity protects your files and databases stored anywhere, including Microsoft Azure and Azure Stack, without any changes to applications, databases, infrastructure or business practices. Vormetric Transparent Encryption for Microsoft Azure enables you to:

- Strengthen data security with controls against unauthorized access based on granular, least-privileged user access policies
- Accelerate breach detection and satisfy compliance mandates with detailed file access logs directed to industry-standard SIEM solutions

CENTRALIZED, SECURE, MULTI-TENANT ENCRYPTION AND KEY MANAGEMENT

The Vormetric Data Security Manager (DSM) provides centralized key, policy and log management for Vormetric Transparent Encryption for Microsoft Azure and Azure Stack. The DSM offers multi-tenancy with independent data security domains, enabling customers to isolate security by defining role-based policies that control who, what, where, when and how data can be accessed. Controls support both system- and enterprise-level roles and groups based on Lightweight Directory Access Protocol (LDAP) supporting Active Directory (AD) and other directory services environments. The Common Criteria-Certified DSM is available as a FIPS 140-2 Level 2 or 3 physical appliance appropriate for on-premises deployment, or a FIPS 140-2 Level 1 virtual appiance, available on the Azure Marketplace.

SECURE AND ANONYMIZE PERSONALLY-IDENTIFIABLE INFORMATION

Vormetric Tokenization with Dynamic Data Masking reduces the cost and effort required to protect personally-identifiable data (PII) from security breaches and data theft. Tokenization secures and anonomyizes PII in the data center, big data environments and in the cloud. Format-preserving tokenization protects sensitive fields while maintaining database structure, for a non-disruptive implementation. It's also easy to add policy-based dynamic data masking to applications.

The Vormetric Tokenization Server is available as a virtual appliance on the Microsoft Azure Marketplace!

BRING YOUR OWN KEYS TO MICROSOFT AZURE KEY VAULT SERVICES

Thales nShield hardware security modules (HSMs) combine FIPS 140-2 Level 3 tamper-resistant hardware with a software architecture enabling industry-leading scalability and key management convenience. With nShield BYOK, your on-premises nShield HSM generates, stores, wraps, and exports keys to the Microsoft Azure Key Vault with the following advantages:

- Safer key management practices
- Greater control over keys—you drive key generation, storage, and export of keys used in the Microsoft Azure Key Vault
- Stronger key generation based on the nShield high entropy random number generator
- Consistent on-premises key management for the leading public cloud providers including Amazon Web Services and Google Cloud Platform

FULFILL YOUR FEDERAL DATA PROTECTION MANDATES

Thales eSecurity simplifies securing your Microsoft Azure and Azure Stack workloads to help you achieve compliance with federal data protection rules, regulations and initiatives. Vormetric data security products operate seamlessly on workloads in Microsoft Azure Stack, managed service providers and on your premises delivering centralized policy and key management. And nShield BYOK for Microsoft Azure Key Vault gives you control over encryption to achieve compliance and safeguard your data.

LEARN MORE

Visit us at **www.thalesesecurity.com** to learn how our advanced data security solutions and services deliver trust wherever information is created, shared or stored.

Follow us on:

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