THALES

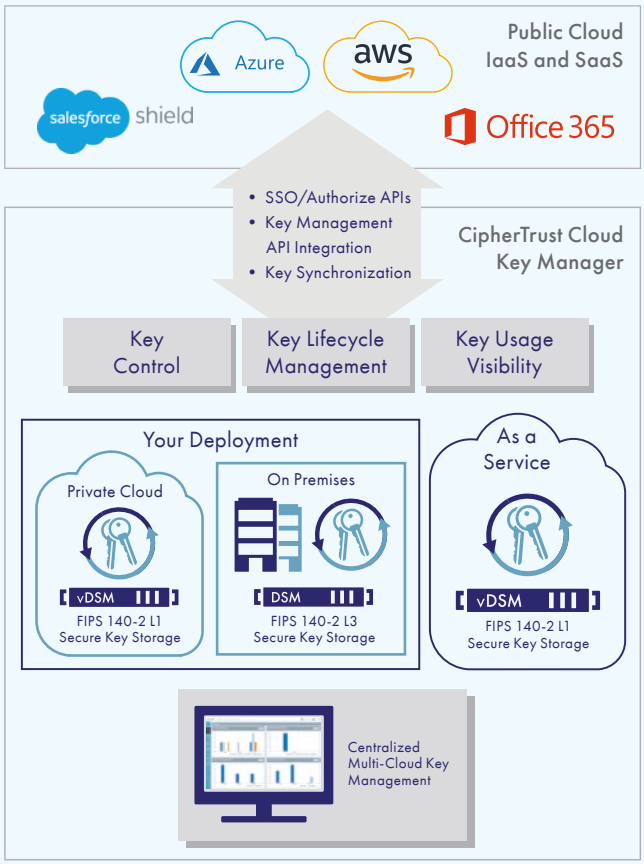
www.thalesesecurity.com

TAKE CONTROL OF YOUR CLOUD ENCRYPTION KEYS

- Leverage the value of "Bring Your Own Key" services with full-lifecycle cloud encryption key management
- Comply with the most stringent data protection mandates with up to FIPS 140-2 Level 3 validated key creation and storage
- Gain higher IT efficiency with centralized key management across multiple cloud environments
- Freedom to choose as-a-service or on-premises deployment

‹Thales eSecurity›

CIPHERTRUST CLOUD KEY MANAGER FROM THALES



Many infrastructure-, platform-, and software as a service providers offer data-at-rest encryption capabilities with encryption keys managed by the service provider. Meanwhile, many industry or internal data protection mandates, as well as industry best practices as defined by the Cloud Security Alliance, require that keys be stored and managed remote from the cloud service provider and the associated encryption operations. Providers can fulfill these requirements by offering "Bring Your Own Key" (BYOK) services to enable customer control of the keys used to encrypt their data.Customer key control allows for the separation, creation, ownership and control, including revocation, of encryption keys or tenant secrets used to create them.

Leveraging cloud provider key control API's, the CipherTrust Cloud Key Manager reduces key management complexity and operational costs by giving customers lifecycle control of encryption keys with centralized management and visibility. The solution can be deployed almost instantly using CipherTrust Cloud Key Manager as a service or can be deployed on-premises to meet more stringent compliance requirements.

CIPHERTRUST CLOUD KEY MANAGER

CONTROL AND VISIBILITY FOR COMPLIANCE

The requirement to protect sensitive data across Infrastructure-, Platform-, and Software as a Service (IaaS, PaaS, and SaaS) cloud offerings has resulted in broader encryption offerings. Industry best practices published by the Cloud Security Alliance and industry analysts state that encryption keys should be held by customers, rather than the cloud provider. But the challenges of holding keys grows with cloud providers: up to tens of thousands of keys need to be secured and managed across multiple environments. There is also the imperative of knowing how, when, and by whom encryption keys are used. The CipherTrust Cloud Key Manager provides comprehensive key management to fulfill requirements for safe, comprehensive key management.

CHOOSE ON PREMISES OR SAAS

CipherTrust Cloud Key Manager offers deployment models that fit your needs:

- **CipherTrust Cloud Key Manager** as a service combines the simplicity of a cloud-based solution with the control required for both internal and industry compliance mandates. *As-a-Service* eliminates the need to architect, deploy and maintain a high-availability cloud key management solution on-premises, with key storage in a FIPS 140-2 Level-1 certified virtual appliance.
- **CipherTrust Cloud Key Manager** is also available in a single-tenant solution appropriate for either private cloud or on-premises deployment, with up to FIPS 140-2 Level 3 key storage.

COMPREHENSIVE KEY MANAGEMENT

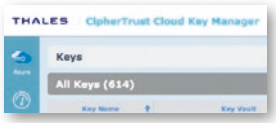
Already created thousands of keys at your cloud provider? CipherTrust Cloud Key Manager will synchronize its database with keys created at the cloud provider. Key attributes, such as creation and expiration rules as well as key usage options are all maintained securely. You can delete a key from Cloud Key Manager or in the Cloud administration portal. Since the DSM performs key escrow, it is still possible to restore or recover a deleted key from the DSM.

A **Key Escrow** preserves encryption keys between multiple management consoles to guard against unintended data loss.

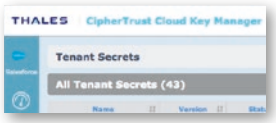
CAPABILITIES FOR ENHANCED IT EFFICIENCY

CipherTrust Cloud Key Manager offers multiple capabilities in support of enhanced IT efficiency:

- Centralized Key Management gives you access to each supported cloud provider from a single web tab. Further, since key terminology and semantics vary per provider, the Cloud Key Manager instantly provides key operation presentation in the language of the cloud provider.



Azure *Keys*



Salesforce *Tenant Secrets*

- Automated key rotation offers IT efficiency and enhanced data security.
- Federated login information from each cloud provider provides the simplest mechanism for granting user access to key data. Each cloud service login is authenticated and authorized by the service provider – no login database nor AD or LDAP configuration is required.

CLOUD KEY VISIBILITY REPORTING

Comprehensive logs and reports offer fast compliance reporting, including a dedicated Cloud Key Manager operational log and five pre-packaged key activity reports. Logs may also be directed to a syslog server or SIEM.

MULTI-CLOUD DATA SECURITY SOLUTIONS

CipherTrust Cloud Key Manager simplifies the need to hold and manage encryption keys for cloud services, a critical solution for fulfilling industry and organizational data protection mandates. Thales eSecurity multi-cloud security products, including advanced encryption, tokenization, privileged user access controls, all with centralized, FIPS-validated key management, enable you to encrypt and control cloud storage to reduce the chance of your sensitive data being leaked.

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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