Thales CipherTrust Manager and VMware Cloud Director Key Management Solution

To meet data sovereignty and data protection requirements

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The Challenge

Data sovereignty means maintaining control over encryption and access to your data. This can be complicated to enforce since data often flows across physical borders and is increasingly being stored in commercial public clouds managed by third parties. This creates challenges related to managing sensitive data and keeping it secure. However, regardless of where the data resides, it remains bound to the data privacy and sovereignty laws of its home country. To meet compliance requirements, organizations need to provide undisputable authority over its most sensitive data assets, including the ability to prove ownership and governance. For this reason, retaining control of the data and management of encryption keys is paramount.

The Solution

VMware Cloud Director is partnering with **Thales CipherTrust Manager** to offer a centralized encryption key management platform to ensure data sovereignty.

Managing encryption keys and storing them securely is the cornerstone to meeting data security and sovereignty requirements. This is because encryption keys (also called cryptographic keys) are the strings of bits generated to encode and decode data. Whoever owns and manages the keys, therefore also ultimately owns the data. This is why organizations must prove they fully manage and control their encryption keys to be compliant.

VMware Cloud Director is a leading cloud service-delivery platform used by VMware Cloud Service Providers to operate and manage successful cloud-service businesses. Thales CipherTrust Manager offers the industry-leading enterprise key management solution enabling organizations to centrally manage encryption keys. Additionally, it serves as the primary hub for managing the CipherTrust Data Security Platform.

Built upon innovative cloud technologies, CipherTrust Manager represents a cloud-attuned key management solution. Its REST interface, paired with a microservice-based architecture, delivers simplified deployment and inherent scalability. The value of CipherTrust Manager lies in its ability to manage keys and policies centrally and to simplify complex key lifecycle management tasks. From secure key generation, backup, and restoration to clustering, deactivation, and deletion, CipherTrust Manager provides a centralized hub for managing encryption keys across disparate encryption appliances.

Combined together, VMware by Broadcom and Thales enable VMware Cloud Director tenants various key management options and benefits.

Bring Your Own Encryption Keys

The concept of cloud tenants "Bringing Their Own Encryption Keys" (BYOK) is increasingly popular. BYOK allows organizations with workloads in 3rd-party clouds such as VMware Cloud Director to oversee and regulate the encryption keys used to protect their data. This ability, enabled by Thales CipherTrust Manager, offers multiple advantages including compliance, data control, regulatory compliance, and an overall boost in data security. BYOK can also be a strategic means of safeguarding sensitive information against data breaches and privacy issues.
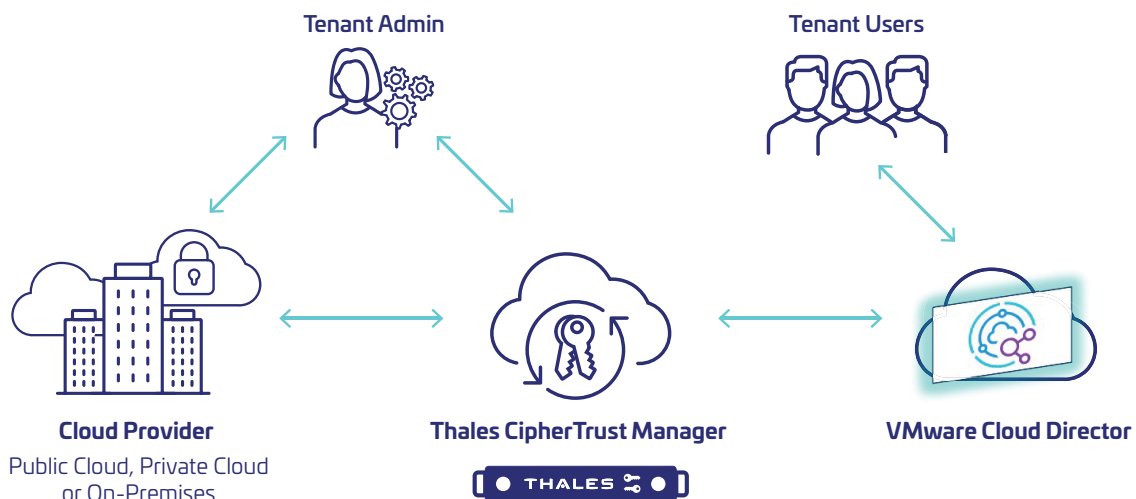
VMware Cloud Director Integration with Thales CipherTrust Manager

Bring Your Own Key Management Server

Cloud tenants often use the providers default key management offering. However, they can also opt to use a third-party key management system such as Thales CipherTrust Manager or "Bring Your Own Key Management Server" (BYOKMS). Choosing an outside key management vendor grant tenants the ability to customize encryption methods, meet regulatory requirements, and strengthen sensitive data security while reducing vendor lock-in risks. This investment is especially advantageous for organizations using multi-cloud or hybrid environments.

Centralized and Simplified Key Management

By using Thales CipherTrust Manager, VMware Cloud Director tenants will have a centralized platform for key and policy management across on-premises data repositories and cloud infrastructures. This solution also simplifies key lifecycle management tasks including secure key generation, backup/restore, clustering, deactivation, and deletion. Thales CipherTrust Manager also streamlines administrative tasks for VMware Cloud Director through a self-service licensing portal.

Targeted for Regulated Industries

This joint offering from VMware Cloud Director and Thales CipherTrust Manager was designed to meet the data protection, privacy, and regulatory compliance needs of highly regulated industries such as healthcare, finance, and government.

About VMware by Broadcom

VMware by Broadcom software forms a digital foundation that powers the apps, services and experiences that are transforming the world. To learn more, visit https://www.vmware.com.

About Thales

Today's businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.