Industry with Data Security Controls for Cloud Services

Leading cloud providers collaborate with Thales to give enterprise control of their encryption keys

Thales, a leader in critical information systems, cybersecurity and data security, announces its high-assurance data security technology is integrated with the leading cloud service provider platforms from Amazon Web Services (AWS), Google, Microsoft and Salesforce, allowing users to establish strong safeguards around their sensitive data and applications in the cloud, and giving them greater control and flexibility.

As organizations transition to digital business models, security is seen as one of the biggest inhibitors to their digital transformation. By collaborating with the world’s leading cloud service providers, Thales is making it easier to implement security in both traditional data center and cloud deployments, ensuring organizations retain control over their encryption keys and their data.

Together with Microsoft, Thales pioneered ‘bring your own key’ (BYOK), enabling enterprises to keep control of the keys used in Microsoft Azure. The resulting Microsoft Azure Key Vault with enhanced key controls, enabled by the Thales nShield hardware security module (HSM), allows enterprises to safeguard sensitive data, manage keys and maintain control. Today we announced a collaboration with Microsoft to provide key management services for Microsoft Azure and Microsoft Office 365 that will allow organizations to maximize the control of their data and provide the highest levels of assurance, regardless of whether the data is on premise or in the cloud.

Organizations using Amazon Web Services Key Management (AWS KMS) can take advantage of enhanced security and control of the encryption keys they use in the cloud and revoke or retire those keys as necessary through BYOK with hardware protection provided by Thales HSMs.

Also announced today is support for Google Cloud Platform’s Customer-Supplied Encryption Key (CSEK) functionality. Google Cloud Platform customers can now generate, protect and supply their encryption keys to the cloud using an on-premise, FIPS-certified nShield HSM from Thales, empowering enterprise customers who want to move workloads and data to the Google Cloud Platform but need to retain control of their key material on-premise.

The Salesforce Shield Platform Encryption enables enterprises using Salesforce to natively encrypt data at rest across their Salesforce apps without compromise to business functionality. Thales Key Management-as-a-Service for Salesforce adds controls that enable organizations to help meet compliance and best-practice requirements by storing, managing and maintaining tenant secrets used to derive encryption keys within a secure Thales-hosted environment.

Thales support for RESTful API provides crypto-as-a-service capabilities that enables organizations to deliver cryptographic services with more ease and flexibility, allowing easier integration with applications and deployment into public, private and hybrid cloud environments. Users can implement their key management and crypto functionality independently and without needing to understand the details of the nShield HSM environment – ensuring the time from project inception to application deployment is reduced to a minimum.

Peter Galvin, vice president strategy at Thales e-Security says:

“The security of any cloud service depends on the level of protection given to the cryptographic keys used to protect the confidentiality and integrity of sensitive data. One cannot underscore enough how hugely important this is. These keys are the root of trust in an enterprise’s entire system – if they are lost, so is the data. If they are stolen, secrets might not stay secret for long. Thales is collaborating with the leading cloud service providers to ensure enterprises are able to control their cryptographic keys and therefore trust that service with their most valuable assets, giving them the confidence to accelerate their cloud deployments.”
About Thales e-Security
Thales e-Security is the leader in advanced data security solutions and services that deliver trust wherever information is created, shared or stored. We ensure that the data belonging to companies and government entities is both secure and trusted in any environment – on-premise, in the cloud, in data centers or big data environments – without sacrificing business agility. Security doesn’t just reduce risk, it’s an enabler of the digital initiatives that now permeate our daily lives – digital money, e-identities, healthcare, connected cars and with the internet of things (IoT) even household devices. Thales provides everything an organization needs to protect and manage its data, identities and intellectual property and meet regulatory compliance – through encryption, advanced key management, tokenization, privileged user control and high assurance solutions. Security professionals around the globe rely on Thales to confidently accelerate their organization’s digital transformation. Thales e-Security is part of Thales Group.

About Thales
Thales is a global technology leader for the Aerospace, Transport, Defence and Security markets. With 62,000 employees in 56 countries, Thales reported sales of €14 billion in 2015. With over 25,000 engineers and researchers, Thales has a unique capability to design and deploy equipment, systems and services to meet the most complex security requirements. Its exceptional international footprint allows it to work closely with its customers all over the world.

Positioned as a value-added systems integrator, equipment supplier and service provider, Thales is one of Europe’s leading players in the security market. The Group’s security teams work with government agencies, local authorities and enterprise customers to develop and deploy integrated, resilient solutions to protect citizens, sensitive data and critical infrastructure.

Thales offers world-class cryptographic capabilities and is a global leader in cybersecurity solutions for defence, government, critical infrastructure providers, telecom companies, industry and the financial services sector. With a value proposition addressing the entire data security chain, Thales offers a comprehensive range of services and solutions ranging from security consulting, data protection, digital trust management and design, development, integration, certification and security maintenance of cybersecured systems, to cyberthreat management, intrusion detection and security supervision through cybersecurity Operation Centres in France, the United Kingdom, The Netherlands and Hong Kong.

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