

Crypto Security with Cloud Simplicity

Cost-effective, easy to manage



What Is Cloud HSM?

Cloud HSM is just as it's aptly named. It is a secure vault protecting the keys to your data, known as a hardware security module (HSM), delivered as an as-a-service offering.

How do cloud-based HSMs work?

Cloud HSMs provide a secure root of trust to protect your data, strengthening encryption practices by generating keys, encrypting and decrypting data securely, and creating and verifying digital signatures. Cloud-based HSMs like Thales Luna Cloud HSMs provide exactly the same cryptographic functionality as on-premises Luna HSM.

Why do I need a Cloud HSM?

- Ensure your data, your intellectual property etc., and that of your customers is secure
- Meet compliance regulations
- Meet and exceed established and emerging standards for cybersecurity
- Achieve certified data security and trust
- Maintain high service levels and business agility



Cloud HSM Use Cases

PKI

Code Signing

IoT

Blockchain

BYOK

5G

Remote Signing



Cloud HSM Use Case Examples



A luxury goods company wanted a more hands-off approach to digital security and compliance and looked to move to the cloud. The company protects its critical brand image with the same Luna-based HSM security they've relied upon for years, while benefiting from the convenience of cloud services they desire for the future.



A commercial vehicle manufacturer, rolling out a certificate-based solution to provide secure ID to every vehicle, chose Cloud HSMs to provide the root-of-trust for the PKI. Moving to a Luna Cloud HSM gave the company a simplified solution with the benefits of predictable costs and high availability.



A large manufacturer of audio equipment was looking for a PKI key vault solution. With encryption keys embedded into headphones, the manufacturer needed a PKI key vault solution specifically for certificate signing, to ensure their code isn't modified after it is signed.

Benefits of using Cloud HSMs as a Service



Cost-effective with zero upfront investment, low TCO with usage-based billing



No need to buy, provision, configure, and maintain hardware and software



Low complexity—Point, click deployment reduces skill requirements



Flexibility to match your changing business needs



Scale, and spin security services up and down automatically, on demand, as your requirements change



Increase HSM capacity and crypto resources without limitations



Centralized management capabilities

About Luna Cloud HSM

HSMs are a secure and trusted mechanism used to protect cryptographic keys and secrets. You can use your Luna Cloud HSM to generate and/or store cryptographic keys, establishing a common root of trust across all applications and services. You can also use your HSMs to perform cryptographic operations such as encryption/decryption of data encryption keys, protection of secrets (passwords, SSH keys, etc.), and more.

About Data Protection on Demand (DPoD)

DPoD is a cloud-based platform that provides a wide range of Cloud HSM and key management services through a simple online marketplace. With DPoD's extensive platform of market-leading Luna HSM, CipherTrust Data Security Platform, payShield payment HSM and partner-led services, security is made simpler, more cost effective and easier to manage because there is no hardware to buy, deploy and maintain.

