

UK-Hosted Luna Cloud HSM for Trusted Cloud Adoption

Delivered through Thales Data Protection on Demand (DPoD), UK-hosted Luna Cloud HSM enables organisations to maintain control over cryptographic operations while supporting sovereignty, governance, resilience and data residency requirements.

The Challenge

As UK organisations accelerate cloud adoption, security, risk and compliance teams need confidence not only in where applications and data are hosted, but also in how they are protected and who controls the cryptographic keys securing sensitive data, applications, digital identities, devices and transactions.

Sovereignty extends beyond geographic location. It is about control, not just physical location.

For sensitive and regulated workloads, organisations need clear governance and visibility across the cryptographic key lifecycle, including where keys are generated, stored, used, backed up and destroyed.

This is increasingly important as organisations assess cloud services against requirements and guidance including UK GDPR, NCSC Cloud Security Principles, the Telecommunications Security Act, public sector security classification requirements, and financial services expectations around outsourcing, third-party risk and operational resilience.

Addressing these requirements early can help reduce assurance complexity and remove barriers to cloud adoption.

The solution

UK-hosted Luna Cloud HSM is delivered through [Thales Data Protection on Demand \(DPoD\)](#), the cloud marketplace for Thales HSM, data security and encryption services. Luna Cloud HSM is the first UK-hosted service available through DPoD, providing organisations with access to proven Thales Luna HSM technology through a UK-hosted cloud service designed to support sovereignty, governance and operational assurance requirements.

Luna Cloud HSM provides high-assurance HSM capabilities for generating, storing, managing and using cryptographic keys across cloud and hybrid environments. Built on Thales Luna HSM technology, it protects the keys securing applications, sensitive data, digital identities, devices and transactions and is supported by recognised validation programmes including FIPS.

With UK-hosted Luna Cloud HSM, customer keys are generated, stored, used, backed up and destroyed in the UK, with UK-based high availability and disaster recovery capabilities supporting operational resilience and business continuity. This helps organisations align cryptographic key control and service resilience with UK sovereignty, governance and data residency objectives.

Existing Luna Cloud HSM customers can migrate workloads to the UK-hosted environment while maintaining operational continuity. Organisations using on-premises Luna HSMs can extend established HSM strategies into cloud through hybrid deployment models, providing greater deployment choice without changing their approach to protecting cryptographic keys.

Key benefits

- Strengthen local control over cryptographic keys**
 Support key lifecycle operations in the UK, including generation, storage, use, backup and destruction, helping organisations maintain control over the keys protecting critical services.
- Reduce friction in cloud adoption**
 Address key residency, governance, operational assurance and auditability requirements through a UK-hosted HSM service, helping security, compliance and risk teams move sensitive and regulated workloads to the cloud without compromising control or assurance.
- Scale HSM services without dedicated infrastructure**
 Access high-assurance HSM capabilities without deploying dedicated infrastructure for every cloud use case, with the flexibility to scale as requirements evolve and support UK-based high availability and disaster recovery strategies.
- Support cryptographic agility and quantum-safe readiness**
 Prepare for evolving cryptographic requirements and the transition to post-quantum cryptography (PQC), helping organisations reduce future migration complexity and strengthen long-term cryptographic resilience.
- Extend trusted security across cloud and hybrid environments**
 Build on established Luna HSM deployments and security strategies across on-premises, cloud and hybrid environments, supporting deployment choice while maintaining a consistent approach to cryptographic key protection.

Key use cases

UK-hosted Luna Cloud HSM supports critical digital trust use cases across cloud and hybrid environments, including:

- Application and API protection
- Data encryption key protection
- Digital identity and trust services
- PKI and certificate authority operations
- Digital signing and code signing
- Software supply chain security
- High-value transaction protection

It is particularly relevant for government, telecommunications, critical national infrastructure, financial services, healthcare and other regulated environments where sovereignty, resilience, auditability and control over cryptographic operations are critical.

Take control of cryptographic sovereignty

Cloud adoption should not require organisations to compromise control over the keys and trust services that protect critical environments.

With UK-hosted Luna Cloud HSM delivered through Thales DPoD, organisations can consume high-assurance cloud HSM services locally, maintain control over key management and support sovereignty, governance, resilience and regulatory objectives.

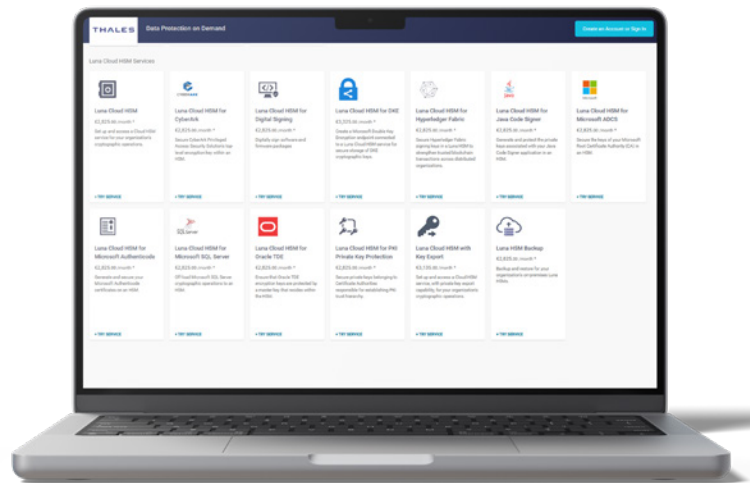
Start your free trial of UK-hosted Luna Cloud HSM on Thales Data Protection on Demand.

Speak to a Thales data security expert to discuss your sovereignty, resilience and cryptographic control requirements.

Why Thales Luna Cloud HSM on DPoD

Thales brings decades of expertise in cryptographic trust and data protection. Luna HSM technology is used globally to protect applications, digital identities, devices, transactions and the cryptographic keys that secure them.

As part of the DPoD marketplace, organisations can consume Thales' cloud-based security services without deploying dedicated infrastructure. Delivered through DPoD, UK-hosted Luna Cloud HSM combines proven Luna HSM technology with the flexibility of a cloud service model, giving organisations greater deployment choice while maintaining control and assurance across their cryptographic operations.



About Thales

Thales is a global leader in cybersecurity, helping businesses, governments, and the most trusted organizations in the world protect critical applications, sensitive data, identities, and software anywhere, at scale — with the highest ROI. With more than 30,000 customers, including 58% of the Fortune Global 500, our solutions are deployed in 148 countries around the world. Through our innovative services and integrated platforms, Thales helps customers achieve better visibility of risks, defend against cyber threats, close compliance gaps, and deliver trusted digital experiences for billions of consumers every day.