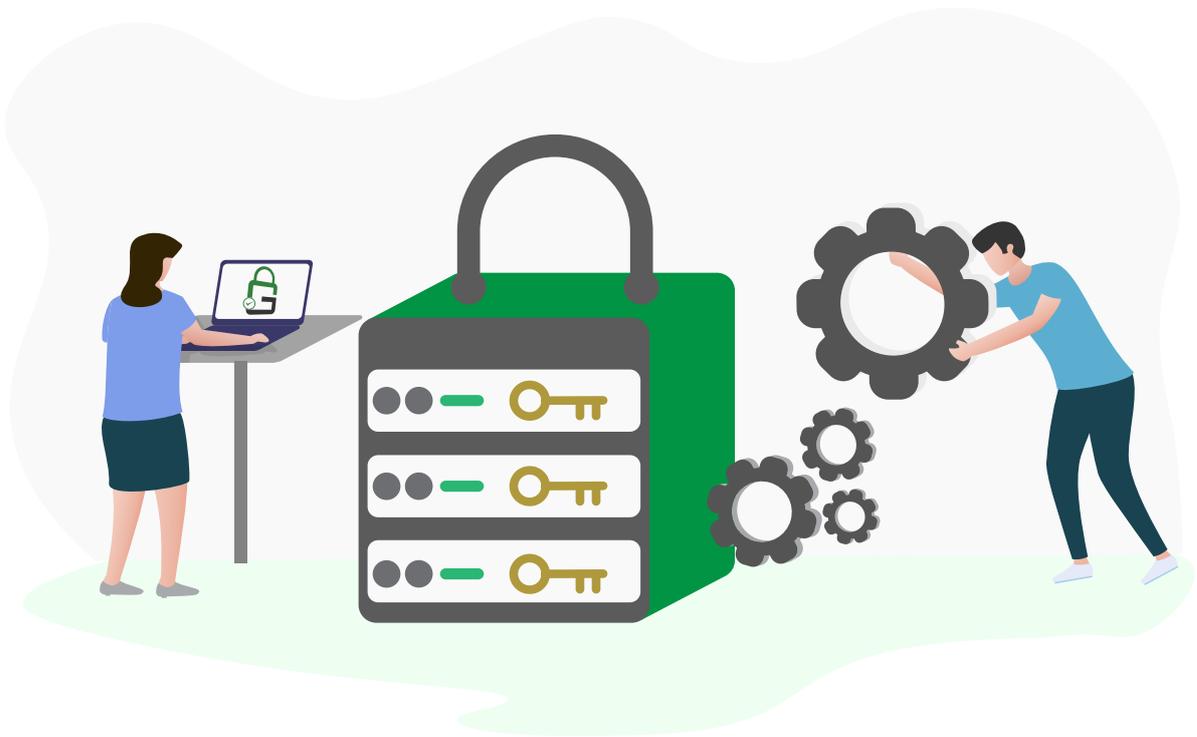




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Fast, Secure, and Scalable Digital Signatures

HSM-Backed Digital Signatures for Code Signing,
SSH, SSL/TLS, S/MIME, and much more.

THALES



Garantir GaraSign & Thales Luna HSM Solution Brief

Balancing Security & Performance

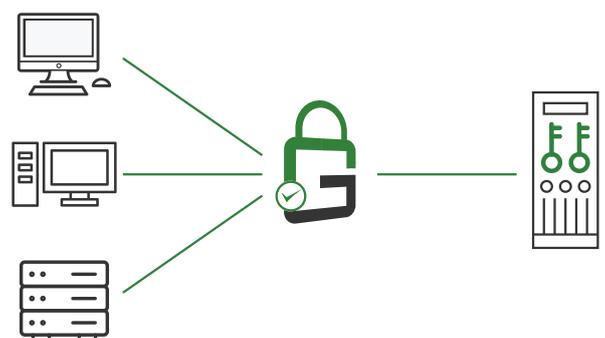
Now more than ever, companies are making heavy use of public key cryptography to meet the growing demands of the tech industry. Unfortunately, the tools provided by the industry haven't scaled well and companies have had to choose between security – storing the keys in an HSM – and performance – distributing the keys out to end users. It is common for enterprises to distribute SSH and S/MIME keys to the various computers in their network, leaving those keys exposed and tough to manage. Those same companies often require their developers and build teams to upload their code and binaries to a central server that has access to the corporate HSM for code signing, leading to a performance bottleneck for CI/CD servers. What companies need is a way to achieve the performance of local keys with the security and scalability of centralized key management backed by a hardware security modules (HSMs).

Fast, Secure, and Scalable Digital Signatures with GaraSign and Thales

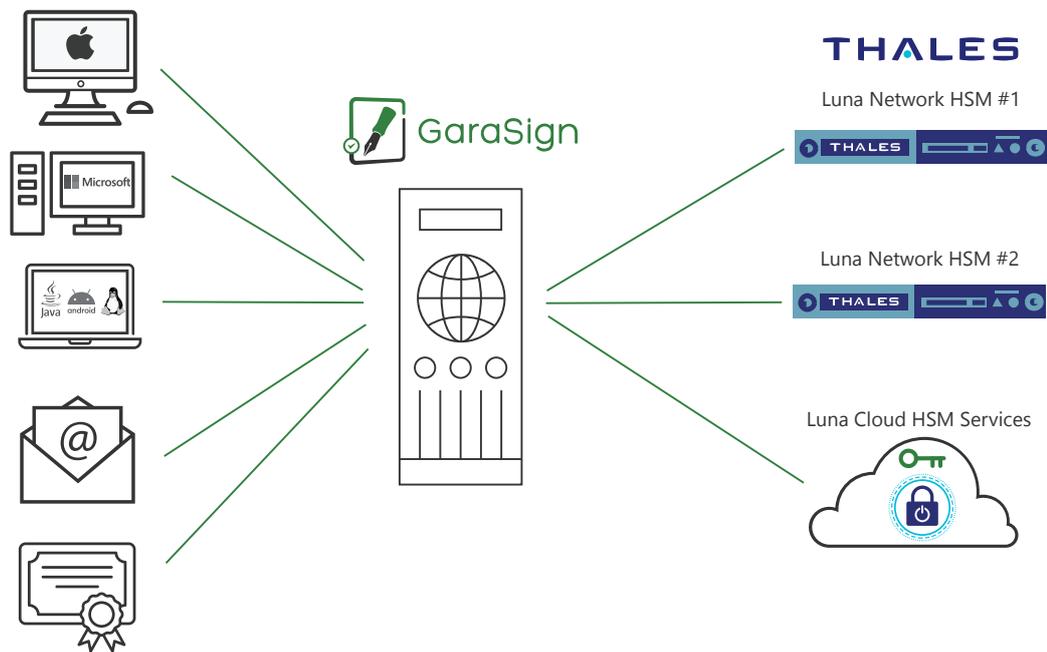
GaraSign, Garantir's cryptographic operations platform, addresses these issues by allowing clients to hash the data client-side before sending the data over the network to be signed by the keys in the HSM. Using this approach, the data sent over the network is minimal which allows for sub-second signatures without exposing the sensitive private key material.

Benefits of Garantir GaraSign With Thales Luna HSMs

- **Strong Security** – keys never leave the hardware security module (HSM)
- **Reporting and audit** features for easier adherence to compliance regulations
- Delivers proven **compliance**, reliability and ease of use
- **High Performance** – client-side hashing results in very fast throughput
- **Scalable** – all nodes are horizontally and vertically scalable
- **Easy to Manage** – keys are centrally managed and the GaraSign administrative interface gives you insight into all activity in the system
- **Easy to Use** – a multitude of client integrations ensures that you can continue using the same tools, platforms, and operating systems you use today
- **Cloud Capable** – GaraSign can be deployed on-premises, in the cloud, or in a hybrid environment



Garantir GaraSign & Thales Luna HSM Solution Brief



GaraSign & Thales Luna HSMs

Combining GaraSign with the industry's most trusted brand of HSM is a natural integration. When backed with Thales Luna HSMs or Luna Cloud HSM Services, GaraSign provides unrivaled key protection, performance, and scalability. GaraSign also enables customers to transparently deploy advanced security features, such as multi-factor authentication, device authentication, approval workflows, IP address whitelisting, notifications, and more.

Thales offers two solutions that maintain Root of Trust private key protection for GaraSign. Both Luna HSMs provide companies FIPS 140-2 Level 3 compliance with the option of maintaining root of trust protection and management of encryption keys across cloud-based, hybrid multi-cloud, on-premises, or a mixture of deployments. This flexibility makes it easier to deploy a solution to address ever-changing compliance mandates and budgetary requirements.

- Luna Cloud HSMs provide a cloud-based HSM service that offers key management capabilities that can be deployed within minutes with no need for specialized hardware or associated skills.
- Luna HSMs store, protect, and manage sensitive cryptographic keys in a tamper resistant on-premises HSM, providing high-assurance key protection within an organization's own IT infrastructure.
- Largest Set of Client Integrations – GaraSign comes with the largest set of client integrations:



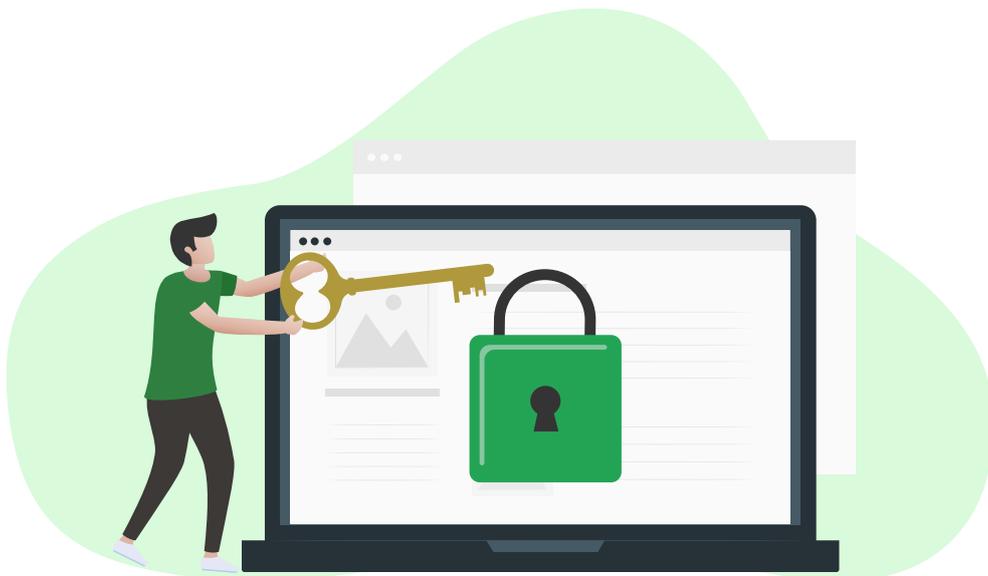
THALES

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing amount of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.



Garantir is a cybersecurity company that provides advanced cryptographic solutions to the enterprise. The Garantir team has worked on the security needs of businesses of all sizes, from startups to Fortune 500 companies. At the core of Garantir's philosophy is the belief that securing business infrastructure and data should not hinder performance or interrupt day-to-day operations. With GaraSign, Garantir's flagship product, private keys remain secured at all times, without limiting the performance of cryptographic operations, including code signing, SSH, S/MIME, document signing, TLS, secure backup, and more.



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