

EVIDEN



Protecting patient data on AWS for an e-health services provider in Europe.



About the client

This European healthcare services company offers a platform for patients to make appointments with health professionals. Their aim is to facilitate the management of health professionals' day to day practice.

The context

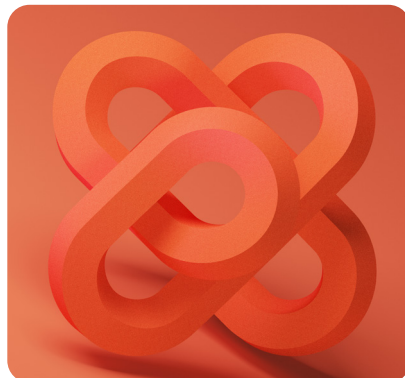
Taking back control of patient data in the cloud

This e-health services provider operates in a fully cloud-based environment, relying solely on Amazon Web Services (AWS), with no data centers. While the cloud offers numerous advantages, it presents unique challenges when handling sensitive patient data.

The challenge

Public cloud environments operate under a shared responsibility model. This means this e-health company had to build trust around patient data in their databases and ensure compliance with regulations like GDPR. They needed to guarantee that unauthorized parties, including extraterritorial entities empowered by the Cloud Act, cannot access this sensitive data.

So, how to be sure they can achieve data sovereignty within a 100% cloud environment?



The solution

HYOK: a multi-layered approach for encryption key management

This organization was looking for a trusted third-party to separate the storage of the master encryption key for sensitive data from data hosting at AWS.

They chose Eviden's cybersecurity services for the secure generation and storage of master encryption keys within Eviden's cryptographic appliances, completely independent of the AWS environment. These keys are then used to encrypt the organization's secrets and encryption keys in their secure vault.

The service leverages [Trustway Proteccio](#), a Hardware Security Module (HSM) that offers software solutions within a highly secure and high-performance environment, enabling the execution of the most sensitive

cryptographic operations. This HSM combines robust physical security measures with a cryptographic core adhering to the strictest security standards, making it one of the world's most certified cryptographic modules for integrating into corporate information systems and cloud services.

Simplified key management for peace of mind

Managing encryption keys securely can be complex. By working with Eviden, this e-health services provider gained a secure and robust service. With this HYOK approach, they were provided with centralized control and protection of encryption keys, eliminating the burden of manual management while retaining complete ownership of their keys.

This partnership offers several additional benefits that contribute to robust data security and efficient operations:

- Optimal key security in Eviden's HSMs
- Cost-effective encryption solution to secure patient data at rest
- Seamless interoperability with existing security solutions
- Ability to encrypt/decrypt data on the fly without application disruption
- Personal Identifiable Information (PII) compliance requirements

Additionally, the pay-as-you-go model offers a flexible and cost-effective solution.

Eviden's unique European cryptography expertise

This e-health services provider chose Eviden's solution as it combines the best of French cryptography and the best of operational security services with AWS. It relies on tamper-proof design of Trustway Proteccio HSM which is:

- 100% European
- The only HSM solution granted Reinforced Qualification by the French National Cybersecurity Agency (ANSSI)
- Certified under the Common Criteria EAL4+ standard
- Received NATO SECRET clearance
- Approved for use in EU restricted agreements



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