


**CANTARUS**
**COMPANY NAME**  
Cantarus

**CUSTOMER TYPE**  
Managed Services Provider (MSP)

**LOCATION**  
United Kingdom

# Summary

## CHALLENGE

Meet impending deadline for GDPR compliance by protecting client data and internal data within a virtual environment.

## SOLUTION

A KMIP integration between Fornetix VaultCore and VMware virtual machines that provides encryption key management through the hypervisor.

## RESULT

Efficient, reliable, and easily implemented data-at-rest encryption that is transparent to operating systems, applications, and storage while maintaining future scalability.

# In Depth

## CHALLENGE

**Meeting data-at-rest security requirements via encryption across two high-availability data centers.**

Cantarus, a trusted full-service digital agency based in the UK, sought an encryption solution to meet requirements from one of their largest clients, a global online payment provider. The client requested that all data-at-rest be encrypted to ensure the utmost level of security for their customers. This was driven both by a general desire to strengthen security and by the General Data Protection Regulation (GDPR). The looming European Union mandate protects the personal information of its citizens and imposes significant penalties for non-compliance. This began to drive other conversations above and beyond the current client's request. How might Cantarus implement exhaustive precautions when it comes to securing their data? **In fact, why not just encrypt everything?**



When considering data was being stored both virtually and on-premise, there were a few challenges to overcome:

- Lack of encryption strategy or key management solution
- Maintaining high-availability across two UK data centers
- Existing hardware infrastructure with no built-in encryption
- Virtual machines need to move throughout the data center
- Existing applications that did not support encryption

With those issues in mind, there seemed to be no easy way of enabling encryption and managing the numerous resultant keys.

*"We could not believe the service and we couldn't ask for any more. The guidance was spot on."*

*Lee Adams*  
**MANAGING DIRECTOR AT CANTARUS**

## SOLUTION

Cantarus updated their virtual environment to VMware vSphere 6.5 which allowed encryption policies to be applied at the Virtual Machine level. They spoke to numerous other key management vendors and discovered none which could meet their long-term requirements. After speaking to Cryptsoft, a company providing Key Management Interoperability Protocol (KMIP) Software Development Kits (SDKs) to enterprise organizations, Fernetix was recommended to them. Fernetix had recently become a Technology Alliance Partner with VMware and offered seamless integration between their VaultCore technology and the vSphere 6.5 hypervisor.

Cantarus purchased and deployed two Fernetix VaultCore Appliances. With the help of the Fernetix support team, one appliance was installed in each data center with real-time synchronization over fiber link to ensure service continuity in the event of failure at either site.

## RESULT

With the recent update of VMware 6.5, Cantarus could handle all policies on their VMs. When paired with the VaultCore Appliances, they have been empowered to easily expand encryption to a plethora of VMs hosted across both data centers with just a few clicks. Cantarus is so impressed by this combined technology's level of service, security, and rapid ROI that they have committed to actively offering it to all their hosted clients. Now that Cantarus has full transparent data encryption, they can manage and automate the entire lifecycle of all keys easily and securely. On top of the technology, the level of service provided by Fernetix has exceeded all expectations. Lee Adams, Managing Director at Cantarus, states that, "We reported an issue and within 24 hours we had a solution. We could not believe the service and we couldn't ask for any more. The guidance was spot on."

## ABOUT FORNETIX

Fernetix is helping organizations unleash the full potential of encryption by conquering the key management bottleneck. Our VaultCore ecosystem automates the key lifecycle across the entire enterprise with groundbreaking precision and speed. Policy-driven automation of the key rotation lifecycle reduces human error and empowers your organization to remain secure and avoid costly data breaches. As global use of encryption rapidly expands, you can be prepared for the future with unparalleled scalability. Please get in touch with us below for more information and to request a demo.



*Why not just  
encrypt everything?*