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Empower Your Data Security with DuoKey KMS

Empowering Data Security with Advanced Key Management and Seamless Multi-Party Computation and HSM Integration

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Introducing to Key Management

In the vast realm of enterprise data security, Key Management Systems (KMS) stand as both a beacon of protection and a source of intricate challenges. As businesses scale, so does the volume of their encrypted data, leading to an explosion in the number of encryption keys that need to be managed. This proliferation can quickly become a logistical nightmare:

- **Diverse Environments:** Enterprises often operate in hybrid environments, juggling between on-premises, multi-cloud, and SaaS applications. Each environment can have its own encryption and key management requirements.

- **Regulatory Maze:** With global operations come global responsibilities. Different regions have varying data protection regulations, each with its own set of encryption and key management stipulations.

- **Operational Overheads:** Traditional KMS solutions can be resource-intensive, requiring dedicated teams for maintenance, updates, and ensuring uninterrupted availability.

Enter Multi-Party Computation (MPC)

Amidst these challenges, Multi-Party Computation (MPC) emerges as a game-changer. At its core, MPC allows multiple parties to compute functions over their inputs while keeping those inputs private. In the context of KMS:

- **Enhanced Security:** Even if one party's system is compromised, the encryption keys remain secure, as they're never fully revealed or reconstructed.
- **Simplified Key Management:** MPC eliminates the need for complex key storage solutions, as keys are split into multiple shares, and computations are done without ever combining these shares.
- **Collaborative Security:** Enterprises can collaborate securely, ensuring data privacy even when working with third-party vendors or across different departments.

Features That Set DuoKey KMS Apart

In the competitive landscape of data security, DuoKey KMS stands out with a suite of features tailored to meet the evolving needs of modern enterprises. Here's a closer look at what makes DuoKey KMS a leader in its domain:

Cloud Encryption

- **Seamless Security:** With DuoKey KMS, your data is encrypted effortlessly before it even reaches the cloud, ensuring it remains protected both in transit and at rest.
- **Universal Compatibility:** Whether you're operating on AWS, Azure, Google Cloud, or any other platform, DuoKey KMS integrates seamlessly

MPC Integration

- **Unparalleled Privacy:** Multi-Party Computation ensures that data processing happens without revealing the actual data, offering a level of privacy previously unattainable.
- **Reduced Complexity:** Say goodbye to the logistical challenges of traditional key storage. With MPC, keys are split and computations are done without ever combining these fragments.

Swift Deployment

- **Ready When You Are:** Our SaaS model ensures that DuoKey KMS can be set up and running in no time, eliminating lengthy installation processes.
- **User-Friendly Interface:** With an intuitive dashboard, managing your encryption keys becomes a breeze.

Cost-Effective:

- **Premium, Not Pricey:** Experience top-tier security without the top-tier price tag. DuoKey KMS offers unparalleled value for money.

HSM Integration:

- **Best of Both Worlds:** DuoKey KMS is compatible with industry-leading Hardware Security Modules like Thales Luna and Entrust, ensuring you get the robustness of hardware with the flexibility of software.

A threat actor accessed a Microsoft account cryptographic key

A threat actor accessed a Microsoft account cryptographic key and utilized it to monitor several US government agencies. This breach was linked to a series of events in 2021, where a system crash and subsequent bug led to the key being inadvertently exposed. The actor exploited this access to monitor the cloud-based email systems of 25 organizations. Microsoft has since taken measures to prevent such incidents, emphasizing the importance of robust cloud security.


Recent high-profile breaches highlight the vulnerabilities in traditional security measures. DuoKey's MPC technology offers a groundbreaking solution. By ensuring encryption keys remain fragmented and never fully reconstructed, DuoKey minimizes risks, making unauthorized access nearly impossible. In a world where data breaches are becoming more frequent, safeguarding your data with DuoKey's advanced MPC is not just a choice—it's a necessity for robust security.

source : infosecurity-magazine.com Sept 2023

Empower Your Data Strategy

With these features and more, DuoKey KMS is not just a product; it's a strategic tool that empowers businesses to harness the power of their data securely and efficiently.
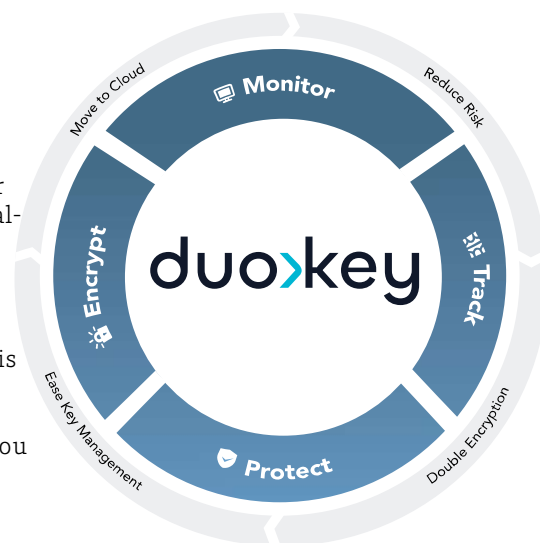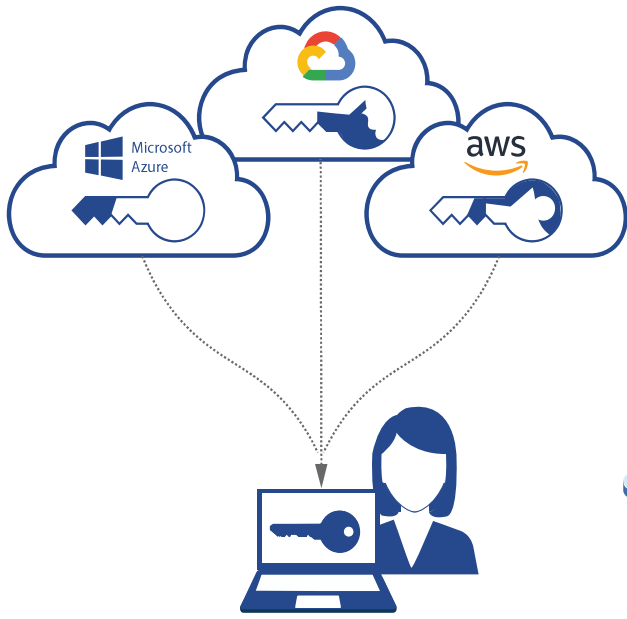
Elevate Your Data Security with Our Advanced DuoKey KMS

- Always use a Master Key controlled by you

- No third-party can ever access your data

- Integration with HSMs and MPC

- Dedicated tenant and vault for storing your keys powered via MPC or HSM

DuoKey for KMS Client

Install our KMS Client app for your LoB application

Install now

Enhanced Data Security

DuoKey MPC module for Salesforce provides an additional layer of security by allowing you to generate and manage your own encryption keys, significantly reducing the risk of data breaches.

Full Key Control

With DuoKey, you have full control over your encryption keys, ensuring that only authorized personnel can access sensitive data.

Ease of use

DuoKey simplifies the process of managing your encryption keys, making it easy to implement robust data security measures without requiring extensive technical expertise.

Seamless Integration

DuoKey seamlessly integrates with HSMs, providing secure, tamper-resistant storage for cryptographic keys and enhancing your overall data security infrastructure.

GDPR FIPS 140-3 ISO 27001 PCI DSS COMPLIANT

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DuoKey KMS: The Future of Data Security

In an era where data breaches are becoming increasingly common, the need for advanced security solutions has never been more pressing. DuoKey KMS, with its innovative MPC technology, stands at the forefront of this security revolution.

Key Takeaways:

*   **Advanced Security:** DuoKey's MPC ensures encryption keys remain fragmented, offering unparalleled protection.
*   **Swift Deployment:** Our SaaS model ensures rapid, hassle-free setup.
*   **Cost-Effective:** Experience top-tier security without the premium price.

Why Choose DuoKey?

*   **Secure Key Management:** DuoKey enables you to generate and control your own encryption keys, adding an extra layer of security.
*   **Integration with HSMs:** DuoKey works seamlessly with Hardware Security Modules, providing secure storage for your cryptographic keys.
*   **Compliance**: DuoKey aids in achieving compliance with industry standards for data security.
*   **Ease of Use:** DuoKey simplifies the process of managing encryption keys, making robust data security accessible.
*   **Scalability:** DuoKey's solutions scale with your business, providing robust security that evolves with your needs.

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