



Kyndryl Security Key Lifecycle Management Services

In today's digital landscape, securing sensitive data is paramount. Encryption is a fundamental tool in safeguarding digital assets.

The management of encryption keys is crucial for businesses, ensures data confidentiality and integrity, fostering customer trust.

Secure Key Lifecycle Management helps companies automate the process of provisioning and managing encryption keys at the various stages of its lifecycle, either in a closed enterprise environment or across a virtual or extended enterprise.

Our team of experienced professionals provide solution design, implementation, and managed services for key management systems, thus minimizing risks and enhancing your overall data privacy and security posture.

Highlights

- Key Lifecycle Management: enables the secure generation, storage, rotation, and deletion of encryption keys throughout their lifecycle.
- Centralized Key Management: centralized platform to manage encryption keys across multiple systems, applications, and databases.
- Key Protection: robust security measures to protect encryption keys from unauthorized access or misuse.
- Key Auditing and Compliance: auditing and reporting capabilities to track key usage, changes, and access attempts.
- Integration with Encryption Solutions: seamlessly integrates with a wide range of encryption solutions and provides a unified key management interface, simplifying the deployment and management of encryption across diverse environments.
- Cloud Key Management: supports key management for cloud environments and enables organizations to maintain control over their encryption keys while leveraging cloud services.
- High Availability and Scalability: ensures continuous key management operations even in large-scale environments.

Introduction

Kyndryl's Security Key Lifecycle Management Services enables customers to implement a solution that will govern an end-to-end management of cryptographic keys, from generation and distribution to rotation and retirement, ensuring that keys are effectively managed and updated as needed.

The solution enables centralized management of cryptographic keys across diverse environments, allowing for streamlined administration and improved operational efficiency.

Kyndryl's Security Key Lifecycle Management capabilities include access to containers security, secrets management, and automation features that unlock higher value cloud services in organized way.

Key Features

- Key Generation: securely generate cryptographic keys using industry-standard algorithms and strong entropy sources.
- Key Storage: safeguard keys in hardware security modules (HSMs) or secure containers to protect them from unauthorized access.
- Key Distribution: automate the secure distribution of keys to authorized users and devices.
- Key Rotation: implement automatic key rotation to enhance security and comply with encryption best practices.
- Key Revocation: enable the revocation of compromised or no longer needed keys to mitigate risks.
- Auditing and Logging: maintain detailed logs of key management activities to support auditing and compliance requirements.
- Integration: seamlessly integrate with existing encryption solutions, databases, cloud platforms, and applications.

Benefits

- Enhanced security: protect sensitive data with strong, regularly rotated encryption keys, reducing the risk of data breaches.
- Compliance: achieve compliance with data protection regulations and industry standards that require robust key management practices.
- Simplified operations: automate key management processes, reducing manual intervention and minimizing errors.
- Cost efficiency: optimize resource usage and reduce operational costs associated with key management.
- Scalability: scale key management to support growing data volumes and diverse use cases.
- Flexibility: adapt the solution to various deployment models, including on-premises, cloud, or hybrid environments.

Service Elements

Key Management Platform/Solution Deployment

- Design, architect, and implement the appropriate key Management Platform and topology to meet customer needs.

Key Lifecycle Management Services

- Provides steady-state management and encryption key lifecycle

For more information

Contact your Kyndryl representative to learn more about how Kyndryl's Security Key Lifecycle Management Services can strengthen your security posture and protect your most valuable data assets.

About Kyndryl

Kyndryl is the world's largest IT infrastructure services provider, serving thousands of enterprise customers in more than 60 countries. The company designs, builds, manages and modernizes the complex, mission-critical information systems that the world depends on every day. To know more visit www.kyndryl.com.

The Kyndryl logo consists of the word "kyndryl" in a lowercase, sans-serif font. The letters are a vibrant red color. The 'y' has a distinctive shape with a long, curved tail that loops back towards the 'n'. The 'l' is a simple vertical stroke.

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