

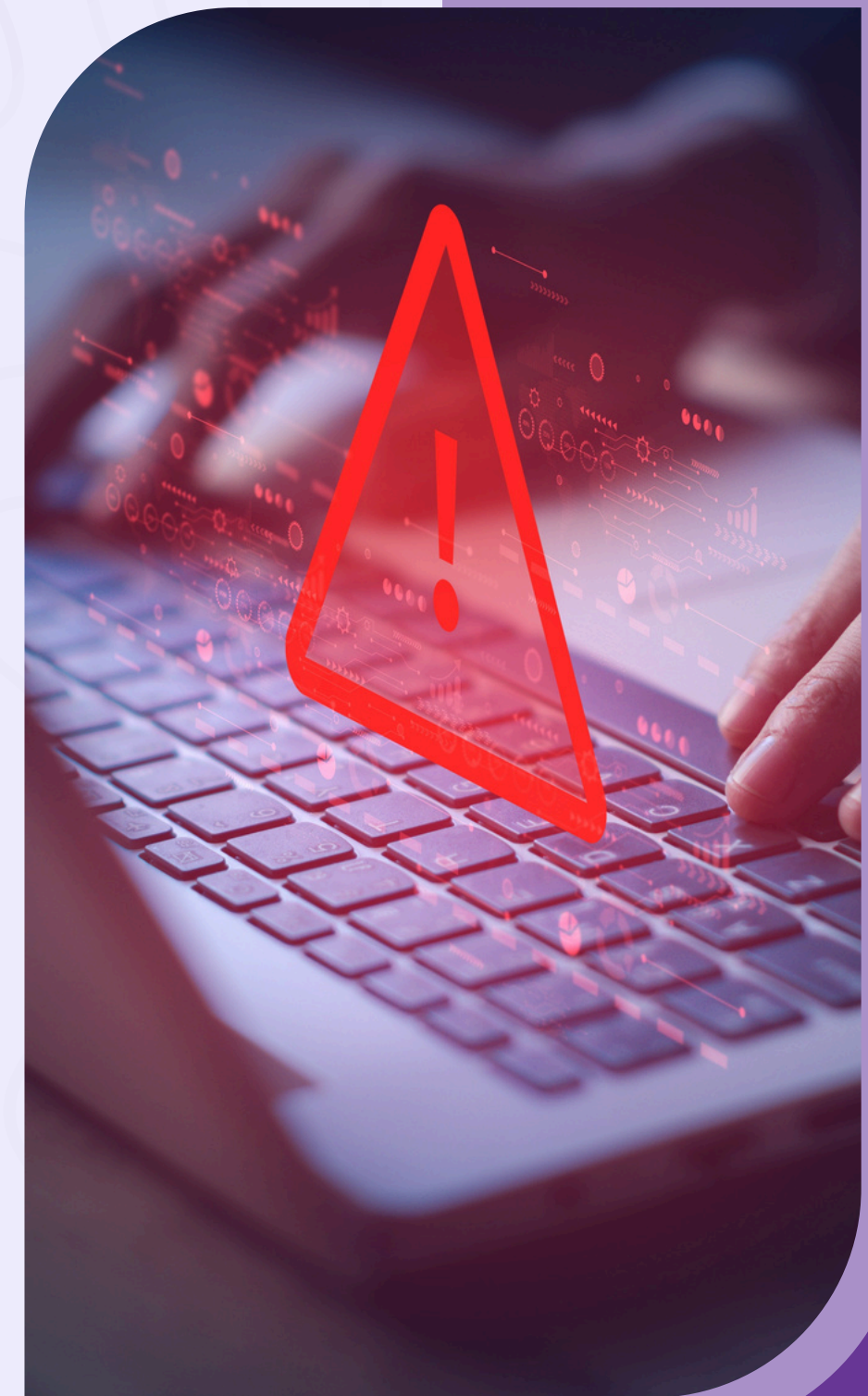
# Key management trends in 2025





# Why Key Management Matters in 2025?

- Increasing cyber threats and data breaches
- Regulatory pressures and compliance mandates
- Digital transformation and cloud adoption



# Trend #1 – Zero Trust Key Management

## Why It's Important?

- Organizations are moving toward Zero Trust, requiring continuous authentication
- Encryption keys must be dynamically managed for secure access control

## How eMudhra Helps:

- Secure key vaulting with controlled access policies
- Granular privilege management with adaptive authentication





# Trend #2 – Quantum-Resistant Cryptography

## Why It's Important?

- Quantum computing threatens traditional encryption algorithms
- Organizations must prepare for post-quantum cryptography (PQC)

## How eMudhra Helps:

- Research & development in PQC
- Future-proof key management solutions aligned with NIST standards



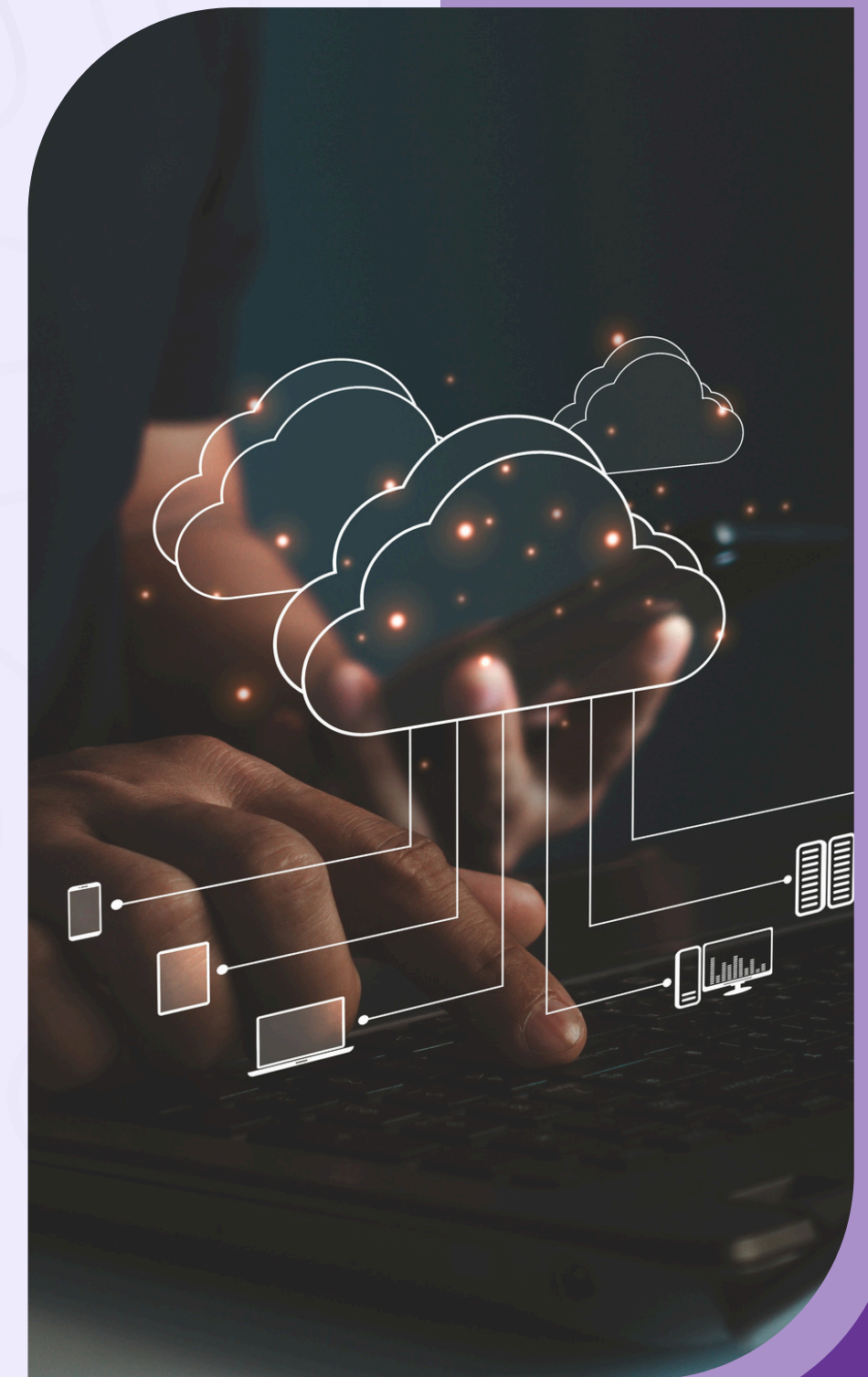
## Trend #3 – Cloud-Based Key Management Services (KMS)

### Why It's Important?

- Rapid cloud adoption demands centralized, scalable key management
- Hybrid and multi-cloud environments require seamless encryption key orchestration

### How eMudhra Helps:

- Cloud-native KMS with seamless on-premise and hybrid cloud integration
- API-driven architecture for easy adoption across cloud platforms





## Trend #4 – Automated Key Lifecycle Management

### Why It's Important?

- Manual key management leads to security gaps and compliance risks
- Automation enhances security posture and reduces human errors

### How eMudhra Helps:

- Automated key rotation, expiration alerts, and policy enforcement
- Integration with enterprise PKI and hardware security modules (HSM)



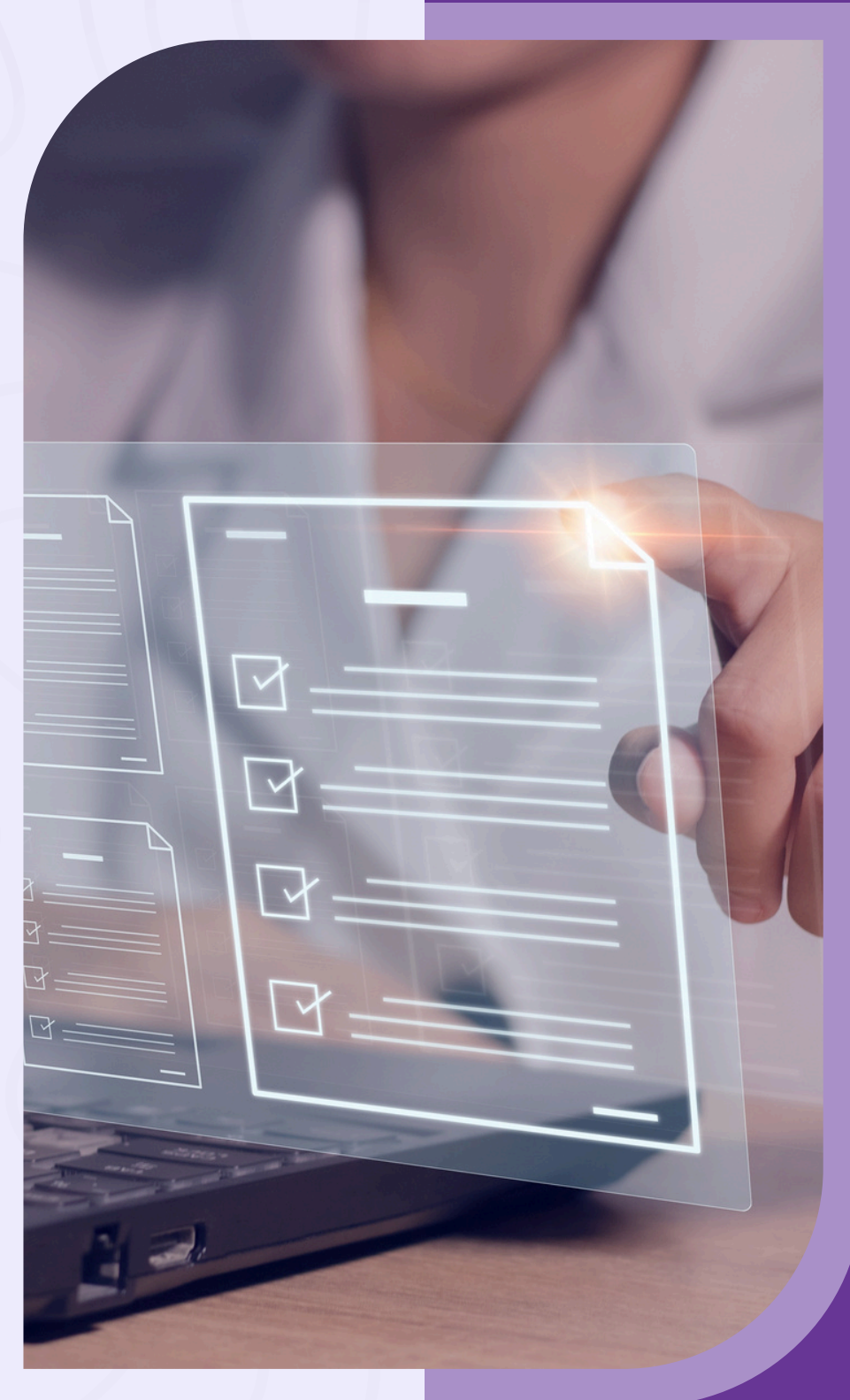
## Trend #5 – Regulatory Compliance & Data Sovereignty

### Why It's Important?

- Governments enforcing stricter data security laws (GDPR, CCPA, NIST, RBI, etc.)
- Organizations need region-specific key storage and management

### How eMudhra Helps:

- Regulatory-compliant key storage solutions
- Multi-jurisdictional key management with local data residency options





# eMudhra's Leadership in Key Management

## Why It's Important?

- Trusted by governments and enterprises worldwide
- Industry-certified (ISO 27001, WebTrust, NIST-compliant)
- Scalable, enterprise-grade solutions tailored for security and compliance

## How eMudhra Helps:

- **eMudhra Key Management Platform:** End-to-end key lifecycle control
- **SecurePKI:** Enterprise-grade PKI solutions for digital trust
- **HSM Integration:** Seamless encryption with leading hardware security modules







## Let's Talk Security **with eMudhra**

Stay ahead of security threats with cutting-edge key management.

**Drop by at [www.emudhra.com](http://www.emudhra.com)**

