

Implementing a Private PKI to secure internal systems, and how to manage the unique challenges





### What is Private PKI?

- A secure, organization-controlled certificate authority (CA)
- Issues digital certificates for authentication, encryption & integrity
- Ensures trust across internal applications, devices & users





## Key Benefits of Implementing Private PKI

- Stronger Security: Full control over cryptographic assets
- Cost Efficiency: Eliminates reliance on external CAs
- Regulatory Compliance: Meets industry-specific security mandates
- Operational Flexibility: Custom policies for authentication & access control





# Common Challenges in Private PKI Deployment

- Certificate Lifecycle Management Expiry tracking, renewals & revocations
- Integration Complexities Compatibility with enterprise applications
- Scalability Managing growing certificate needs across cloud, IoT & hybrid environments
- Security of Root CA Preventing unauthorized access & key compromises
- Compliance Burden Adhering to evolving regulations & audit requirements





# eMudhra's Approach to Private PKI Implementation

- Secure & Scalable Architecture On-premise & cloud-based deployment
- Automated Certificate Management Lifecycle tracking & renewal automation
- Strong Root CA Protection HSM-backed key storage for maximum security
- Seamless Integration Supports enterprise apps, VPNs, IoT, and cloud services
- Regulatory Compliance Assurance Adheres to global security standards (NIST, GDPR, ISO 27001)





## Why Choose eMudhra for Private PKI?

- Proven Expertise 15+ years in digital identity & cryptography
- Globally Trusted CA Supporting enterprises across industries
- End-to-End Solutions Identity management, digital signing & encryption
- Enterprise-Grade Security HSM-backed key protection & policy enforcement
- Customizable & Scalable Solutions tailored to specific security needs





Success Stories: eMudhra in Action



#### **Leading Financial Institution**

- Implemented Private PKI to secure online transactions & customer authentication
- Reduced fraud risks & achieved regulatory compliance



#### **Government Agency**

- Deployed eMudhra's PKI to secure internal communications & citizen services
- Enhanced operational security while ensuring seamless scalability





### Take the Next Step with eMudhra

#### Partner with us to:

Secure your internal systems with a robust Private PKI

• Automate certificate lifecycle management & policy enforcement

• Stay compliant with evolving global security standards

Contact us at www.emudhra.com today to get started!

