

PKI Service

At Encryption Consulting, we provide expert PKI advisory services to help organizations design, implement, and manage PKI infrastructure that are secure, scalable, and compliant with industry best practices.



Public Key Infrastructure (PKI) is the foundation of trust in digital transactions, identity management, and secure communications. However, many organizations struggle with PKI complexity, governance challenges, and operational inefficiencies, leaving them exposed to security risks and compliance gaps.

Without a well-structured PKI strategy, organizations face



Compliance Risks

Failure to align with industry standards such as NIST, eIDAS, GDPR, PCI DSS, and WebTrust can lead to regulatory penalties and loss of trust.



Security Vulnerabilities

Poorly managed certificates and weak key management expose organizations to breaches and system outages.



Operational Disruptions

Unplanned certificate expirations cause downtime, service failures, and costly remediation efforts.

Unlocking the Full Potential of PKI

Imagine a PKI strategy that not only enhances security but also simplifies certificate management, reduces risk, and ensures compliance. Partnering with Encryption Consulting provides:

- ✓ A well-defined PKI roadmap aligned with business objectives, regulatory needs, and evolving security threats.
- ✓ Resilient and scalable PKI architectures that integrate seamlessly across on-premises, cloud, and hybrid environments.
- ✓ Optimized certificate lifecycle management to eliminate downtime, prevent service disruptions, and enhance security posture.
- ✓ Future-ready PKI solutions built to support quantum-safe cryptography and changing authentication models.

Why Leading Enterprises Choose Encryption Consulting?



Trusted by 185+ global customers, including 100+ Fortune 500 companies



Delivered 500+ encryption and cybersecurity projects across 25+ countries



96% customer retention rate driven by long-term encryption advisory partnerships



Achieved 90% customer satisfaction across cybersecurity and cryptographic services



Rated 4.9/5.0 on Gartner Peer Insights for Encryption Consulting services



Led by consultants with 20–30 years of deep expertise in applied cryptography



Built 600+ encryption governance frameworks aligned with GDPR, PCI DSS, HIPAA, NIST, and ISO 27001 standards



Conducted 400+ custom workshops and knowledge transfer sessions, training 5,000+ security professionals

Your PKI Advisory Roadmap

Our PKI advisory service follows a structured approach to ensure your PKI systems are secure, compliant, and future-ready. From assessment and strategy development to seamless implementation, our service ensures long-term security and operational efficiency.



PKI Assessment

Analyze existing PKI systems to identify gaps and align with best practices.



Strategy & Architecture Design

Design a scalable, secure PKI architecture tailored to your needs.



Policy Development & Compliance

Create compliant Certificate Policies (CP) and Certification Practice Statements (CPS).



Future-Ready Assurance

Prepare your PKI for emerging technologies and upcoming security challenges.



Ongoing Support & Optimization

Provide continuous support, audits, and lifecycle management for optimal performance.







Implementation & Integration

Seamlessly deploy and integrate PKI solutions with minimal disruption.

Our Comprehensive PKI Advisory Services

Engage with our full advisory offering or select individual services to fit your requirements.

| Service | Key Activities | Key Deliverables |
|---|---|--|
| <div></div> <div>Assessment</div> | <ul style="list-style-type: none">● Assess the current PKI infrastructure across on-premise and cloud environments● Identify vulnerabilities, gaps, misconfigurations, and operational risks● Review CA hierarchy, certificate templates, key management practices, and compliance alignment | <ul style="list-style-type: none">✓ PKI health assessment report✓ Risk and gap analysis report✓ Remediation recommendations with prioritization✓ Executive summary for stakeholders |
| <div></div> <div>Design & Implementation</div> | <ul style="list-style-type: none">● Design secure PKI architectures for on-premise, cloud, or hybrid environments● Create architectures supporting different regions and business units● Define certificate issuance policies, key management standards, and governance● Deploy Root CAs, Issuing CAs, CRL/OCSP infrastructure, and perform validation | <ul style="list-style-type: none">✓ PKI architecture design document✓ Hardened Root and Issuing CA configurations✓ Certificate templates and enrollment profiles✓ Deployment validation and testing reports |
| <div></div> <div>CP/CPS Development</div> | <ul style="list-style-type: none">● Develop CP/CPS documents following RFC 3647● Define certificate issuance, management, renewal, and revocation workflows● Align documentation with regulatory, internal, and industry best practices | <ul style="list-style-type: none">✓ Certificate Policy (CP) document✓ Certification Practice Statement (CPS) document✓ Governance framework for audits and compliance✓ Finalized policy set for operational rollout |

| Service | Key Activities | Key Deliverables |
|--|---|---|
|  <p>Support Service</p> | <ul style="list-style-type: none"> ● Provide subscription-based, 24/7 operational support ● Support CA management, certificate lifecycle operations, and incident resolution ● Perform periodic health checks, patching, and upgrades ● Assist with audit preparation, compliance reporting, and risk mitigation | <ul style="list-style-type: none"> ✓ CA maintenance and operational support plan ✓ Monitoring and reporting updates ✓ Incident response playbook ✓ Crypto-agility advisory reports |
|  <p>Microsoft Intune Deployment</p> | <ul style="list-style-type: none"> ● Integrate PKI with Microsoft Intune for seamless certificate enrollment ● Configure SCEP/NDES connectors to support mobile and endpoint device management ● Define and deploy certificate enrollment policies for devices ● Ensure security and compliance in mobile device certificate provisioning | <ul style="list-style-type: none"> ✓ Intune-PKI integration architecture ✓ Configured SCEP/NDES services ✓ Certificate enrollment and issuance policies ✓ Administrator training and handover documentation |
|  <p>Windows Hello for Business Deployment</p> | <ul style="list-style-type: none"> ● Prepare Active Directory, Azure AD, and Intune environments for deployment ● Implement key trust or certificate trust models based on business needs ● Develop onboarding strategies and policies for Windows Hello for Business ● Support pilot deployments, testing, and user rollouts | <ul style="list-style-type: none"> ✓ WHfB deployment and trust model design ✓ Infrastructure configuration documentation ✓ User onboarding and training materials ✓ Post-deployment monitoring and optimization reports |

Additional PKI Offerings

PKIaaS

We also offer PKIaaS that helps you to take complete control of your PKI without the complexities with our expert support and guidance. We provide a customizable and high-assurance PKI solution for various platforms that is designed and built to the highest NIST standards.

Deployment Options To Choose From



On-Premises

Enhance your digital security by implementing our managed PKI within your infrastructure.



SaaS

Enhance security, reduce costs, and establish digital identities for your users with our PKIaaS.



PKIaaS

Experience a fully customized PKI solution with our managed and hosted services.

PKI Training

In our three days of PKI training delivered online, in-person training focusing on Microsoft Active Directory Certificate Service (ADCS) training, customers will learn how to deploy or design PKI solutions in the enterprise. You will learn how to build a PKI on Windows Server 2019, focusing on areas such as integration with HSM, Two-tier PKI, Cloud PKI, and more.



ENCRYPTION
CONSULTING

Get in Touch

Don't let encryption challenges put your data at risk. Our expert services help you build, assess, and optimize encryption strategies tailored to your business needs. Reach out at info@encryptionconsulting.com or call +1-469-815-4136 to get started.