ENCRYPTION CONSULTING
www.encryptionconsulting.com

PKI as a Service

PKIaaS

Encryption Consulting’s PKIaaS

Encryption Consulting’s PKIaaS offers you a customizable and high assurance PKI solution in various platforms (cloud/hybrid/On-prem) designed and built to the highest NIST standards. It’s a low-risk managed solution that gives you complete control of your PKI without having to worry about the complexity of the solution.

Encryption Consulting’s PKIaaS is suitable for:
- Customers who may already have an existing PKI.
- Customers planning for a new PKI Infrastructure.

Encryption Consulting’s services related to PKIaaS

Dedicated:

- Advanced PKI expertise will be assigned for the service.
- Consistent and Flexible to meet your organization’s demands.
- In-House Organization Still maintains complete oversight.
- Not Dependent on company turnover.
- 24*7*365 support service.

Reduces Cost & Complexity:

- Quicker Deployment.
- Less in-house issues.
- Reduces spending for in-house technologies.
- Periodic PKI Assessments & Trainings.

Scalability and Flexibility:

- Scale up easily with high-availability options.
- Provide observations and recommendations regarding current and future initiatives to help achieve desired future state capabilities.

Additional Services

Encryption Consulting also offers further services related to the Root CA such as:

- Sub CA signings
- Root CA and Sub CA certificate lifecycle management advice (e.g. hashing algorithms / cryptographic algorithms)
- Policy / certificate profile advice
- Root maintenance
- Root migration / rollover

Key Benefits of PKIaaS

Compliance: PKIs, especially ones utilizing Hardware Security Modules, help fulfill many different compliancy requirements, including FIPS and PCI DSS.

Designed to your specifications: We design a PKI formatted to your exact specifications, ensuring it meets all necessary compliance and business requirements.

Reduced cost: Creating your PKI on the Cloud offers the customer a reduced cost, as the infrastructure for the PKI is all kept on the Cloud, other than HSMs used.

Nominal chance for loss of sensitive data: With data access restricted by certificate ownership, the chance for having sensitive data stolen when using a PKI is minimal.

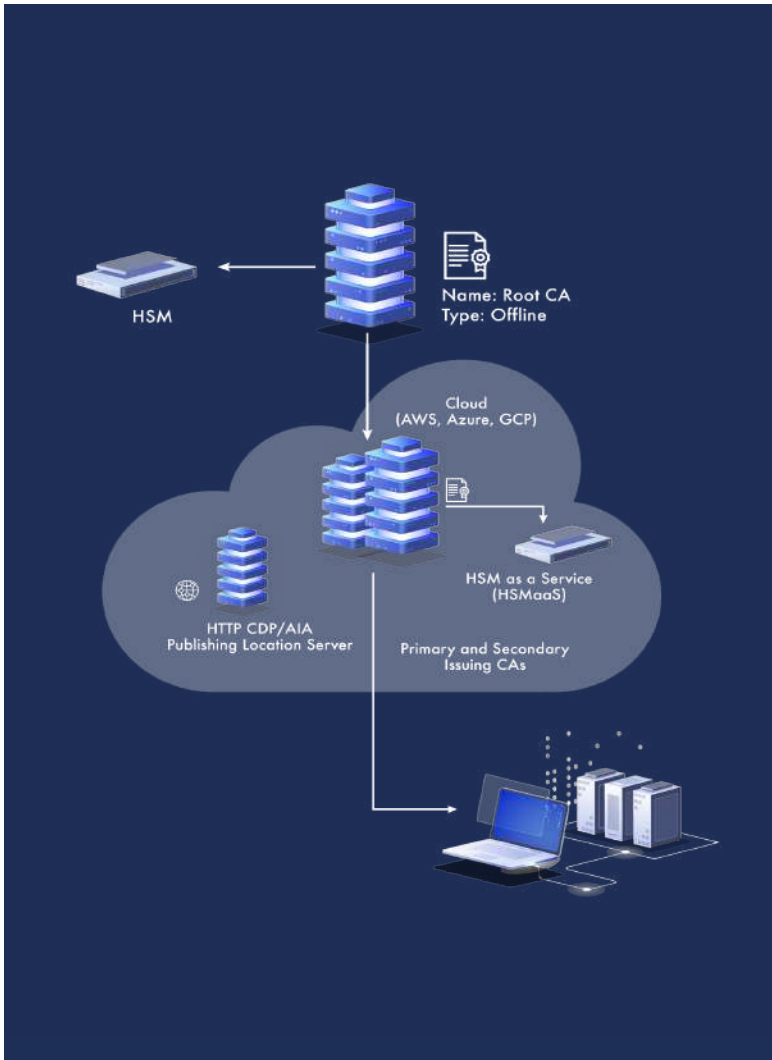
Simple key and certificate management with automation: Automating certificate and key management tasks lowers the amount of manpower needed.

Network visibility: With the implementation of Easily scalable: Scale up easily with high PKIaaS, you will know that only trusted users availability and geographic redundancy are on the network, as they will need a options. certificate to access any data.

Holistic View of EC's PKIaaS

Many organizations are moving core components of their infrastructure to the cloud to enable cost savings and provide scalability. When running a PKI, the challenge is to secure the root as an offline resource and to separately manage the Root CA and issuing sub-CAs which need to be accessible online for certificate requests and issuance.

Encryption Consulting has the expertise and secure environment necessary to hold the Root Private Key offline and to manage the signing of keys used for online RAs and issuing sub-CAs. Customers will have a PKI CA hierarchy (two-tier or three-tier) as per their business needs. All CAs within this CA hierarchy will only issue certificates to the below level CAs and end-entity certificates for internal usage. The two-tier PKI CA hierarchy consists of a single PKI Root CA and two or more PKI Issuing CAs as per their business requirement.



EC’s Managed PKIaaS Elements

Encryption Consulting LLC (EC) will completely offload the Public Key Infrastructure environment, which means EC will take care of building the PKI infrastructure to lead and manage the PKI environment (cloud/hybrid or On-Prem) of your organization. EC deploys your PKI infrastructure in a “one subscription fee model”.

Below are the managed service elements EC offers with our one subscription fee model.

PKIaaS One Subscription Fee Model

Service Elements	Basic	Extended	Advanced
RA/CA Operations Certificate lifecycle management (Certgeneration, validation, revocation etc.)	X		
PKI Operations Management Modifying/updating the existing Certificate templates, Developing the existing (CP)/CPS template, BCP Policy and procedures	X		
PKI Key Management Key Management for users/devices,Key backup /recovery/archival	X		
Backup and Restore Backup of good configuration at regular frequency, Maintaining the backups safely/securely	X		
Patch Management Fixing security vulnerability through patch/hotfix upgrade to enhance functional/non-functional features	X		
Technical/Customer Support Efficient and timely support for 24'7'365 to avoid any service disruptions	X		
Auditing Audit logs/functional logs available on-demand		X	
Hardware Security Module (HSM) Management Complete management of HSM modules for software/hardware/service issues		X	
PKI Support Infrastructure Management Full length support for the entire PKI Infrastructure including single tenant/ dedicated Systems for Issuing CAs/CDP services		X	
Integration with Other Business Applications PKIaaS integration with key enterprise applications (AD, auto enroll, SIEM tool etc.)			X
Network Devices Integration Issuing certificates for Network devices using NDES over SCEP/EST			X
Testing & UAT sign off Provide the test environment to test the applications integration with the PKIaaS solution			X
Major Software Upgrade Software version upgrades up to N-1 of managed PKI systems where N is latest version available from vendor			X

Why Encryption Consulting LLC?

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Encryption Advisory Services

Encryption is used for securely protecting data from unauthorized access. Data encrypted can only be seen by those that possess the key to change the data back to plain text. Encryption is now one of the oldest yet still most effective technology solutions able to have data security for organizations.

Public Key Infrastructure

PKI is a security ecosystem that has stood the test of time for achieving secure Internet-based transactions by the use of digital certificates. Digital certificates have provided security to servers and routers from the very early stages of the Internet through Public Key Infrastructure

Hardware Security Module – HSM

Hardware Security Modules provides protection and strong authentication with cryptographic processing by the use of digital keys inside a physical computing device. This device offers an isolated tamperproof environment which can create and secure cryptographic keys, protecting critical cryptographic operations, all while enforcing self-implemented policies over the keys.

Certificate Lifecycle Management

Certificates typically have a 4-phase lifecycle - Discovery, Enrollment, Provisioning, and End-of-life. To make your PKI mature and reliable, you must have more control over all the phases

Enterprise Encryption Platforms

Does your business have the need to encrypt large amounts of data-at-rest found in structured databases or in unstructured files across physical, cloud, or both types of environments? Do you want to protect data without disruptive changes to applications or business practices?

Cloud Data Protection Services

The transition towards uploading data on the public cloud is now becoming the normal standard. With relying on the cloud for data storage, cloud security must now become the number one priority for organizations

Request Quote

Encryption Consulting LLC is a customer-focused cyber securtiy consulting firm providing an array of services in all aspects of data protection.

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