



# Your Digital Vault-Key Management Systems

Key management refers to management of cryptographic keys in a cryptosystem. This includes dealing with the generation, exchange, storage, use, destruction and replacement of keys. It includes cryptographic protocol design, key servers, user procedures, and other relevant protocols. Key management concerns keys at the user level, either between users or systems.

Successful key management is critical to the security of a cryptosystem which is the backbone of the Your Digital Vault environment. It is the more challenging side of cryptography in a sense that it involves aspects of social engineering such as system policy, user training, organizational and departmental interactions, and coordination between all of these elements. Information furnished by Wikipedia for Terms and Definitions.

## 1. Front End Web

The front end of Your Digital Vault uses SSL Certificates provided by our hosting provider. These SSL certificates make SSL/TLS encryption possible, and they contain the website's public key and the website's identity, along with related information. Devices attempting to communicate with our site use this certificate to obtain the public key and verify the server's identity.

## 2. Application and User Management

The Application and User Management process uses encryption keys. The keys for Delegates and the Primary account holder are directly linked. This linkage allows restrictions to viewing encrypted data to only the delegates that are confirmed to have permission. This ensures that only authorized users can access sensitive data, enhancing the security of our application.



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### **3. Network Management**

The Network Management process leverages various tools and policies to ensure the security and efficiency of our network. This includes AWS CloudWatch for monitoring and observability, User Access Policies to control who can access what resources, Server Access Policies to manage server access, and Network Segmentation to divide the network into smaller parts for better management and security.

By implementing these key management systems, Your Digital Vault ensures the security and integrity of our users' data.