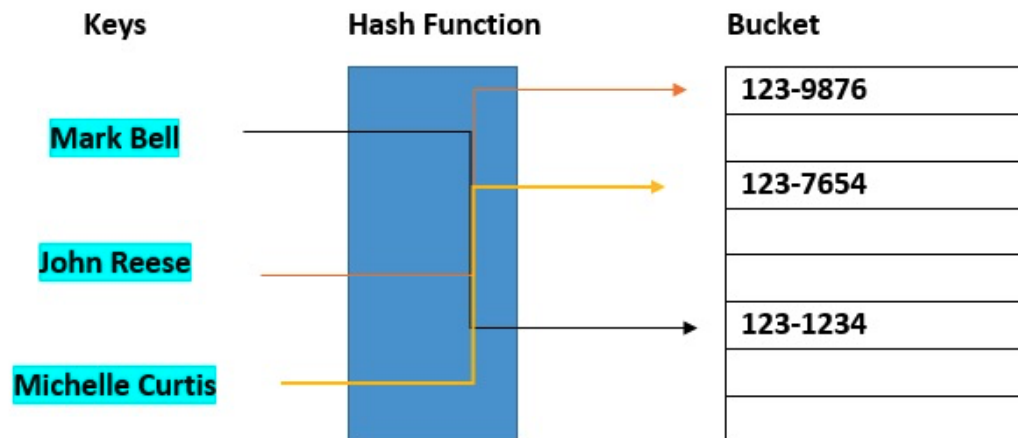
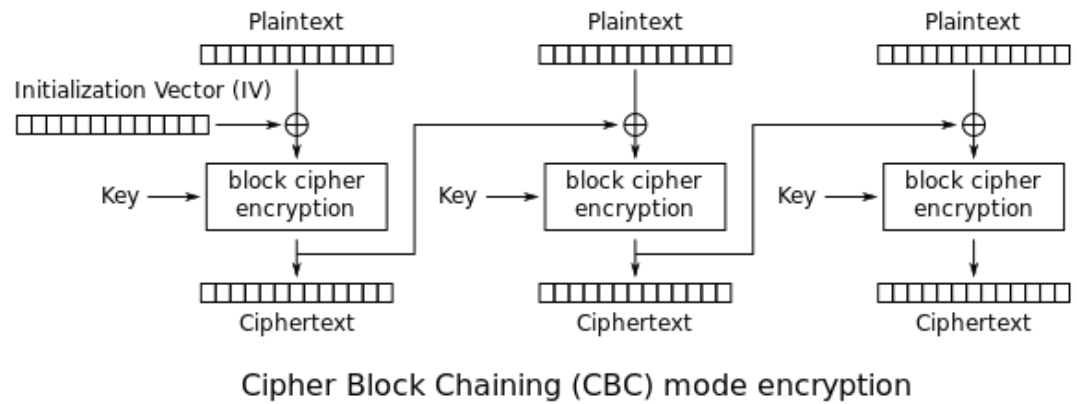


10/22

- Intro to crypto
 - hashing
 - Hashing is the transformation of a string of characters into a usually shorter fixed-length value or key that represents the original string
 - one way
 -

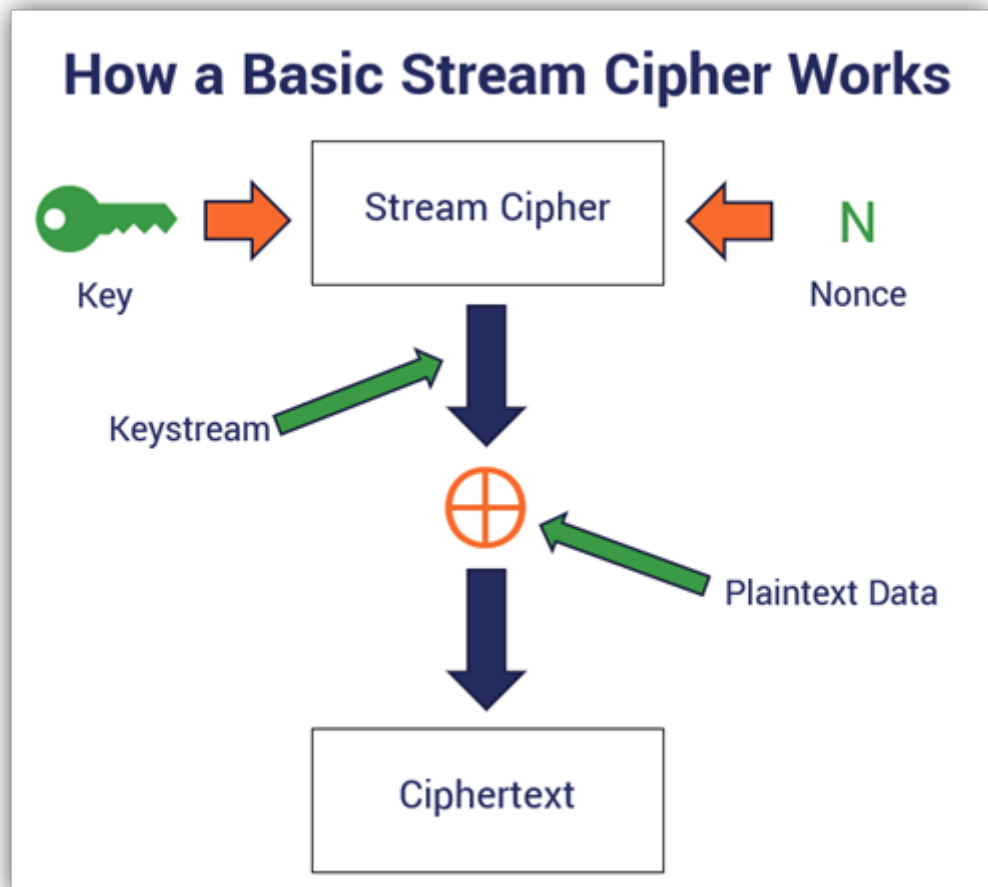


- encoding
 - process of putting a sequence of characters (letters, numbers, punctuation, and certain symbols) into a specialized format for efficient transmission or storage
 - HTML encoding, URL encoding
- cryptographic hash
 - MD5 (outdated)
 - Sha-256
 - Sha-1
- symmetric crypto
 - same key encrypt and decrypt
 - block
 -



- stream

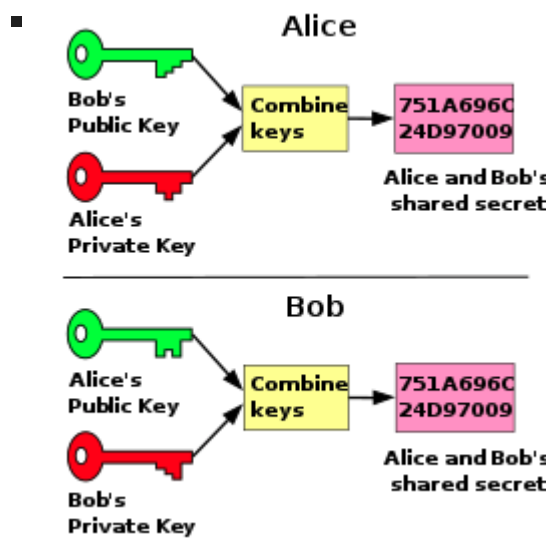
-



- assymetric crypto

- two different keys encrypt and decrypt
- used for signing and encryption
 - Encryption uses a key to ensure the ciphertext cannot be deciphered by anyone but the authorized recipient. Signing of data works to authenticate the sender of the data and tends to implement a form of encryption in its process.
- Encrypt and Decrypt
 - public key given out to all
 - private key kept safe

- encrypt with your private and recipients public
- decrypt with your private key
- can authenticate sender based on private key used to encrypt message



- signing

- only sign using your private key
- anyone can use your publically available public key to validate you signed the message

