

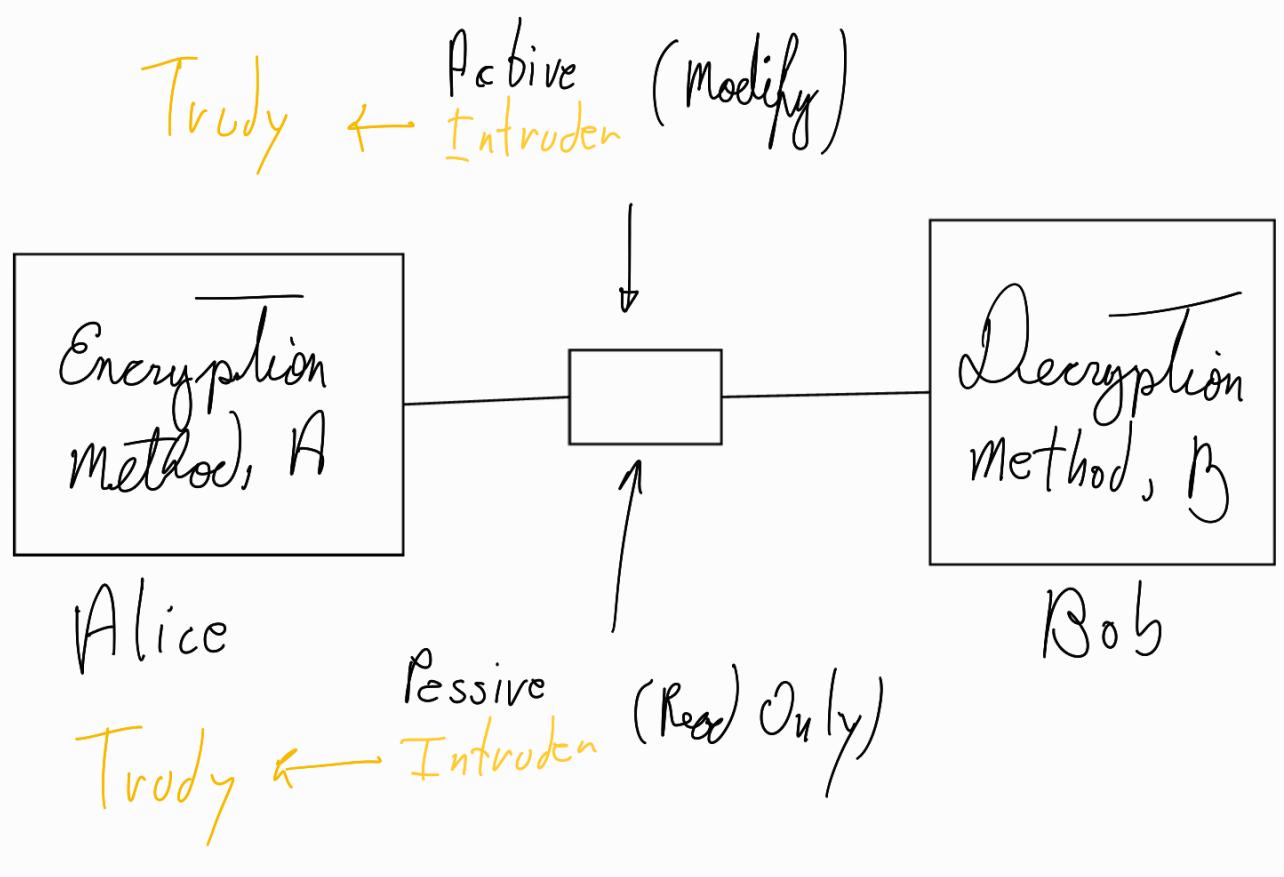
Ciberseguridad

↳ threat intelligence reports

tem para
code tecnologia

- Ataque Principal : Phishing (engañar a usuario)

- Back doors : Software com m/c/vare
ex:
- DDoS: Ataque em massa
- Engenharia Social
- Direct Memory Access : Acessa Memória



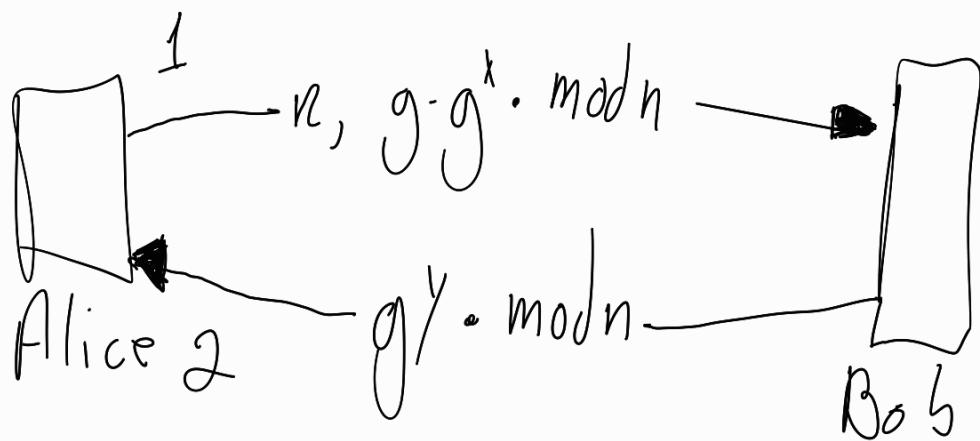
~~Metodos de Segurança~~

- Chave Secreta e não algoritmos

Proteção Matemática

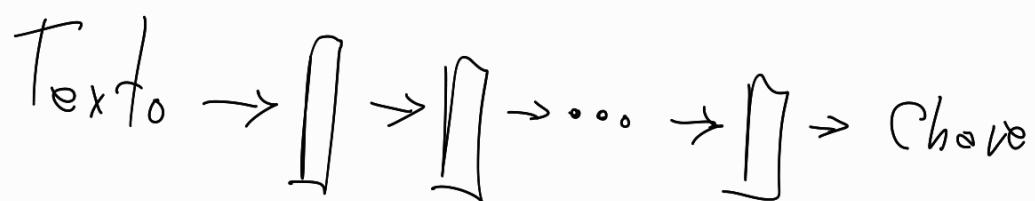
- Segurança finita
- Menos Interface com Sistema

Troca de Chaves : Diffie - Hellman



Chaves Simétricas

Ex. de Método de encriptamento: DES



Métodos de Chaves Simétricas

DES → weak

RC4 → have caution

RC5 → good

AES (Rijndael) → best

Serpent → strong

Triple DES → good old

Twofish → strong

Chaves Assimétricas

$K_{A,B}$: Sacred Key shared by A and B

K_A^+ : Public Key of A

K_A^- : Private Key of A

Key Exchange | | with Key K

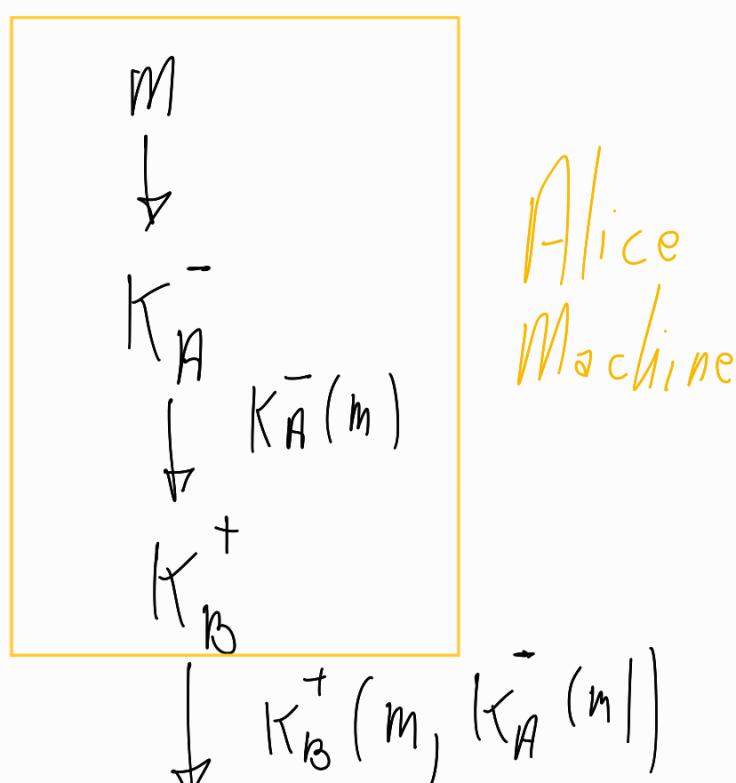
$K(j)$: Data j encrypted with key k .

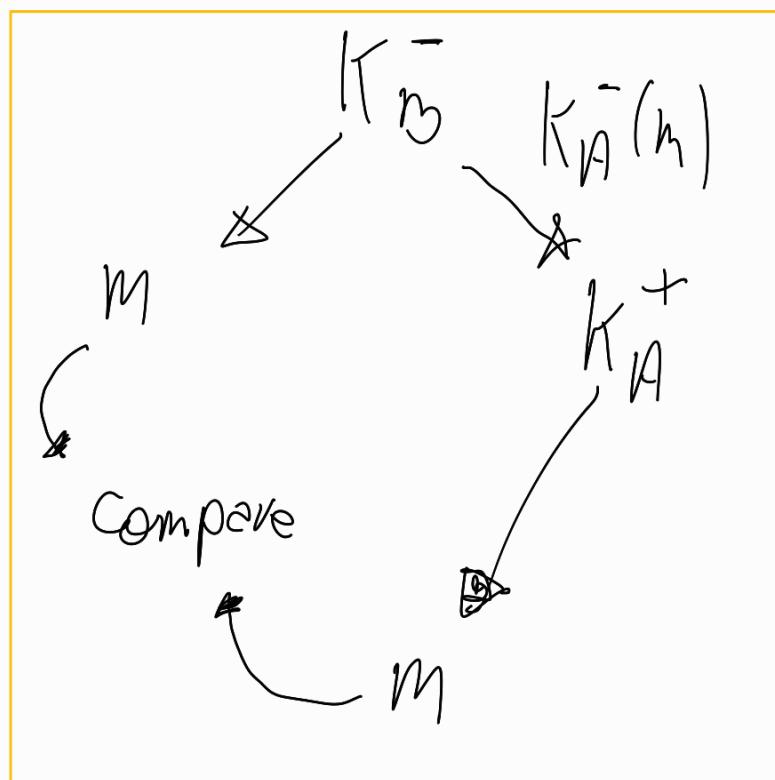
Decryption

$$K_A^+(d) \xrightarrow{K_A^-} d$$

$$K_A^-(d) \xrightarrow{K_A^+} d$$

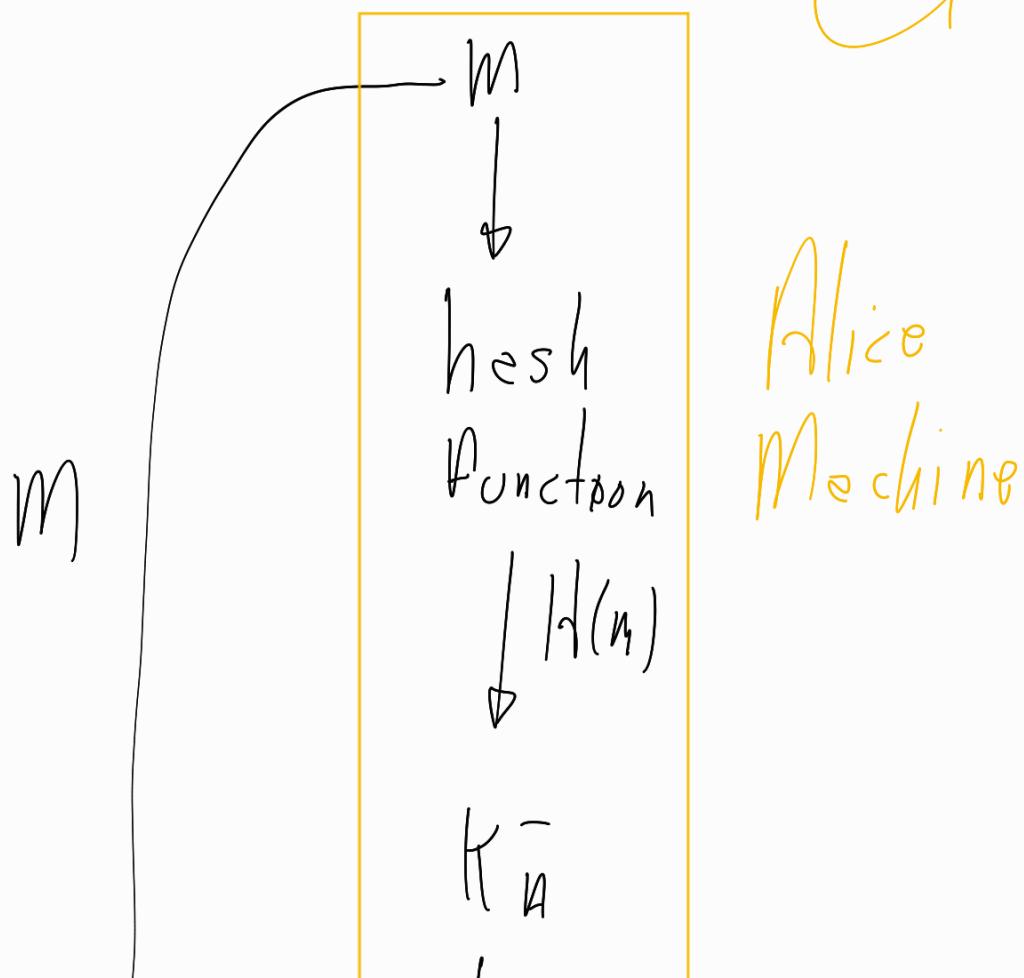
Assintors com Public e Private Key

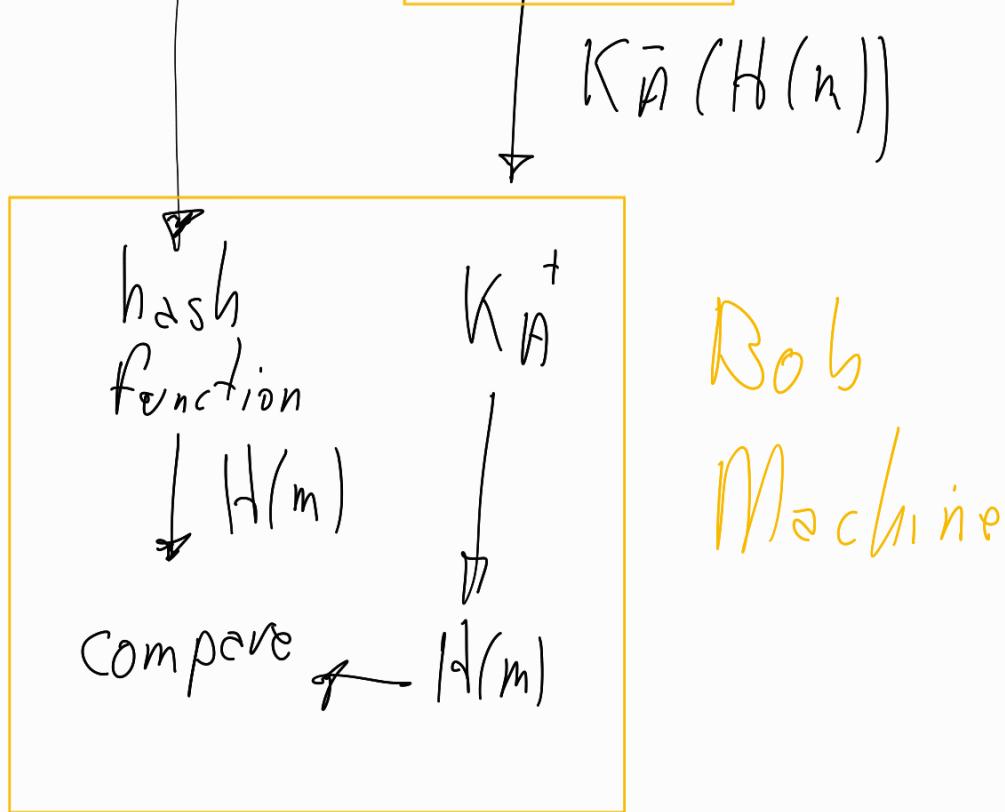




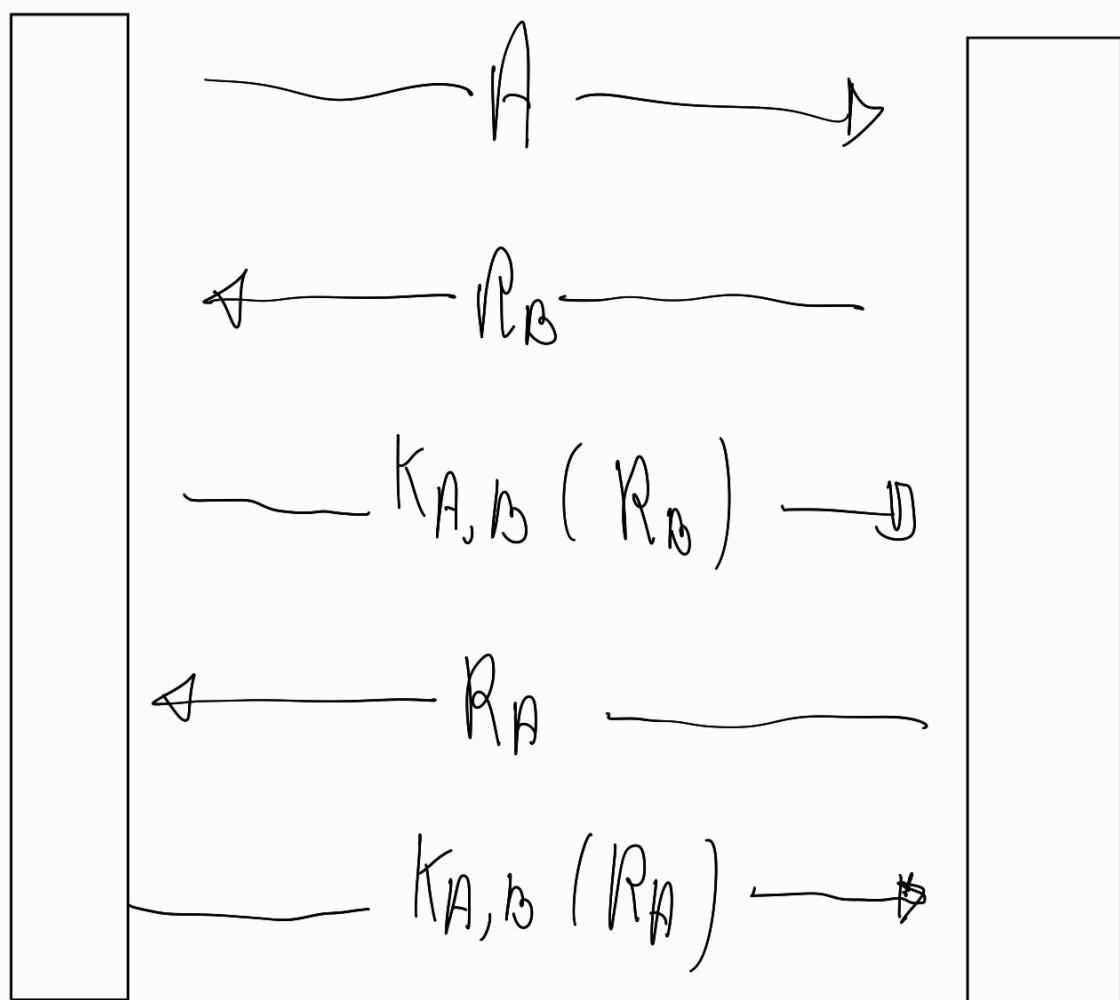
Assinatura com Hash

Hash → Não é criptográfica





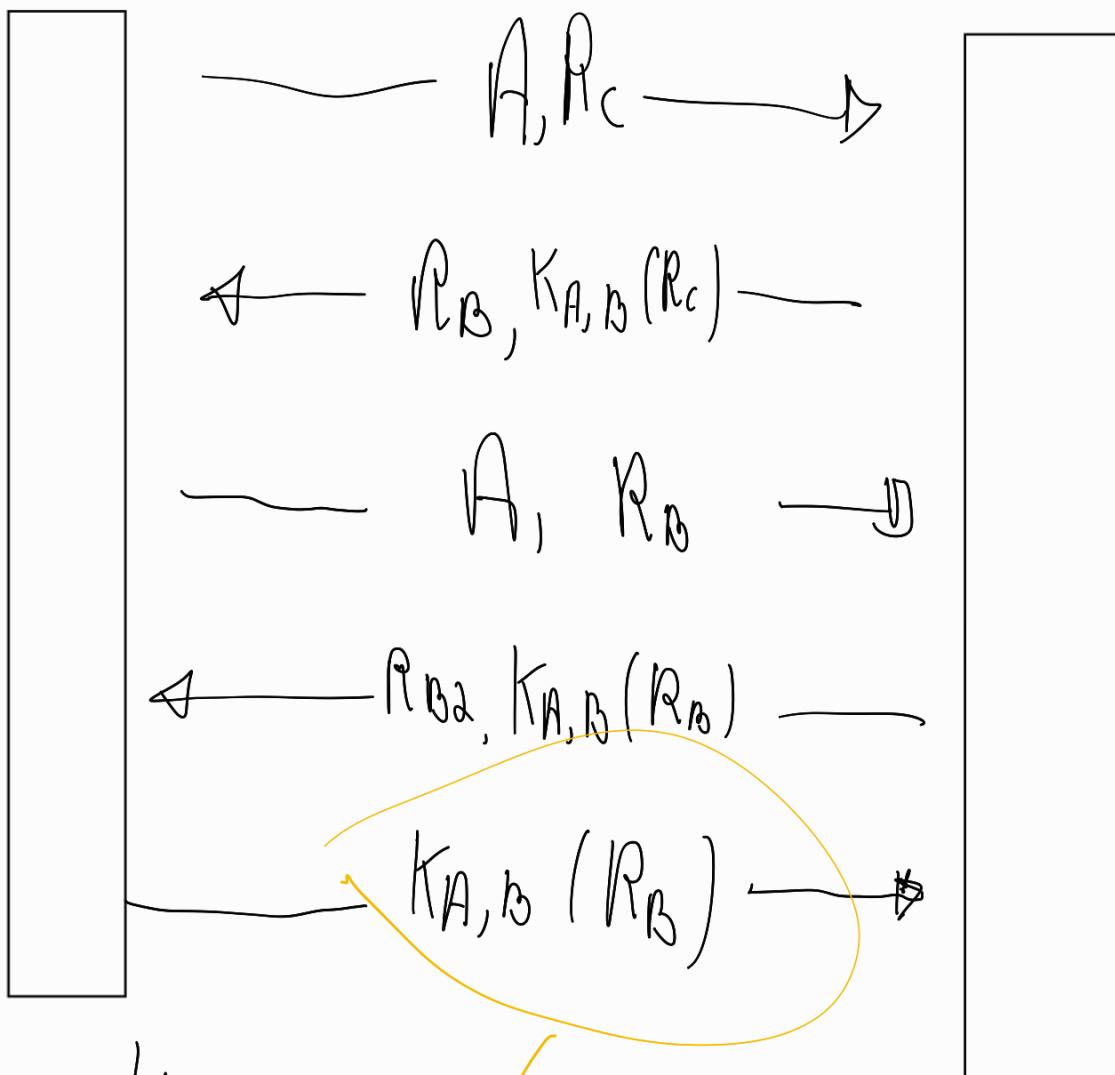
Assinatura com Chave Simétrica



Alice

Bob

Ataque de Reflexão (na assinatura acima)

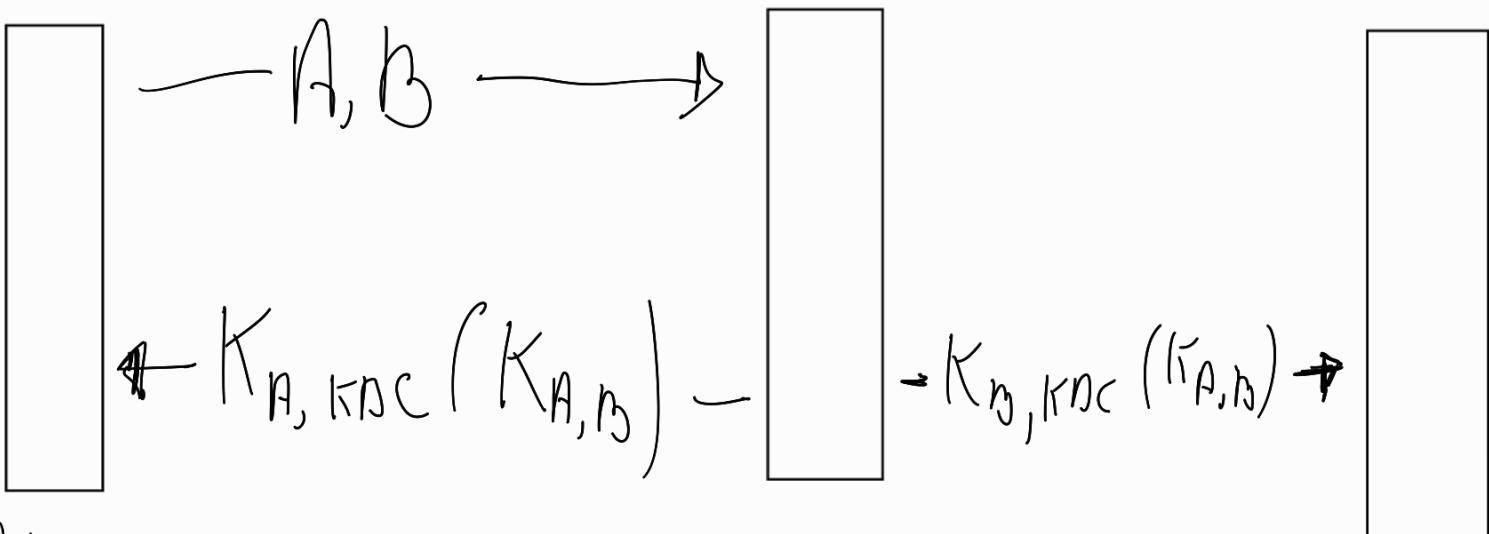


Chucky

(Fake Alice)

by this
simulates Alice Response

KDC



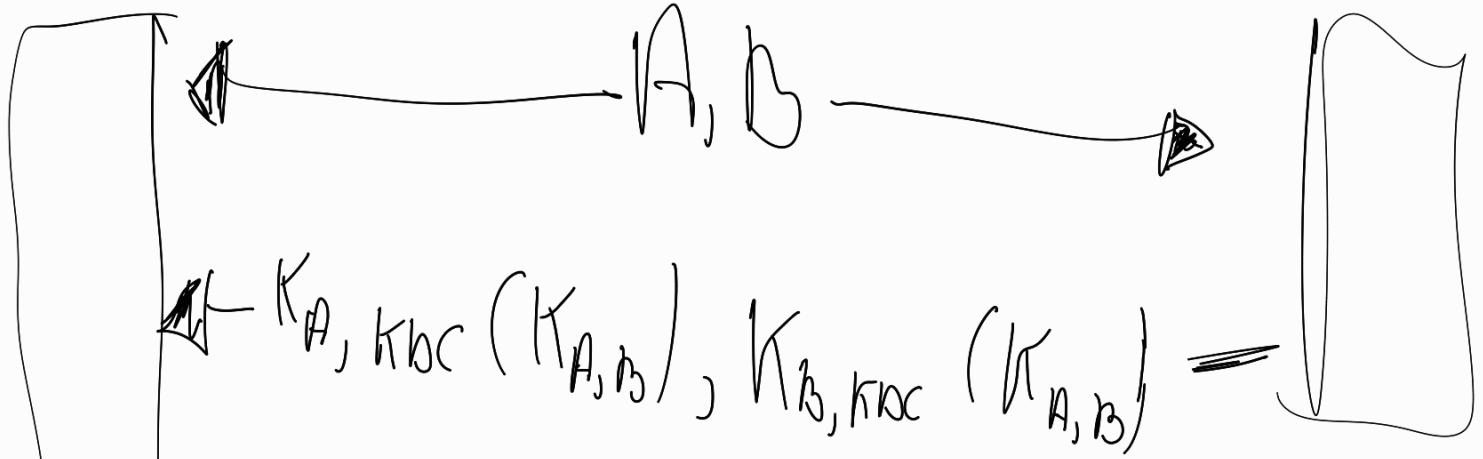
Alice

KDC

Bob

Tickets

Kb c



$$A, K_B, K_{BC} \left(K_{A,B} \right) \rightarrow$$

Alice

Bob

NS2 : Anti-Reflexão

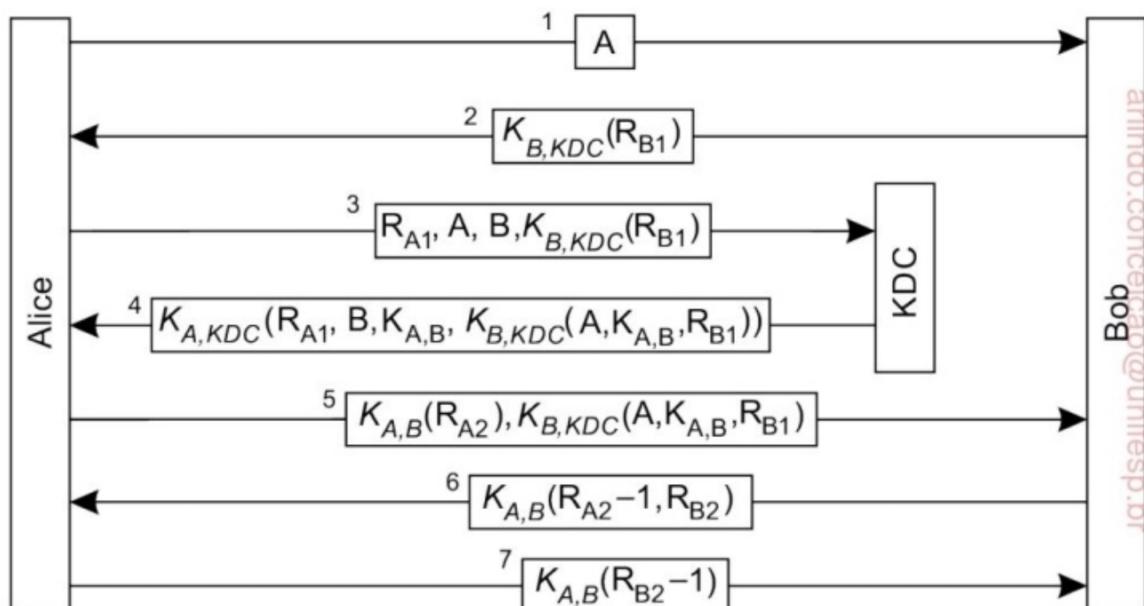
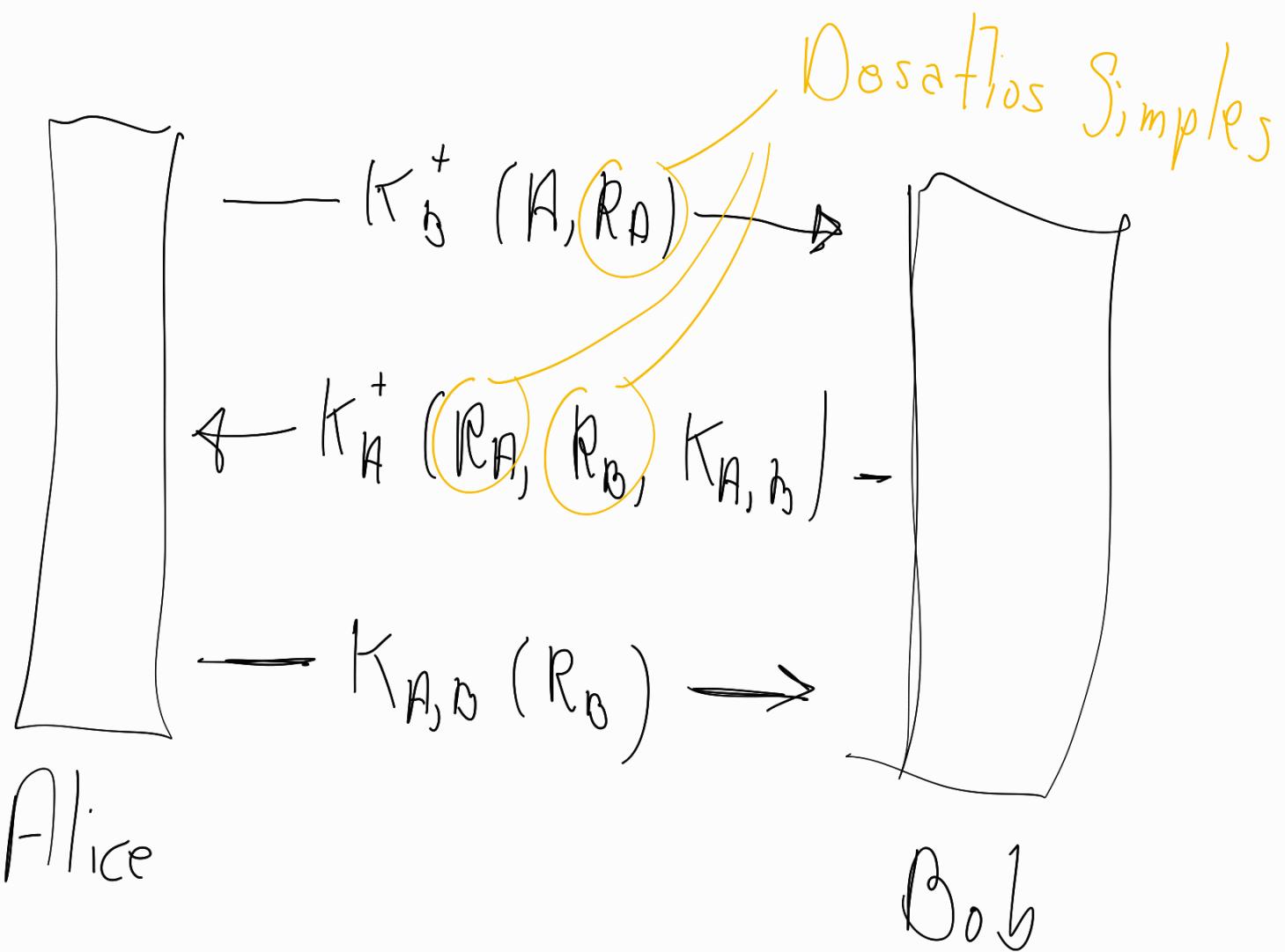


Figure 9.12: Protection against malicious reuse of a previously generated session key in the Needham-Schroeder protocol.

Autenticação Ponto a Ponto

↳ Chaves Assimétricas



Chave Assimétrica para criar chave

Ela também mantém conexão com Chave Simétrica

