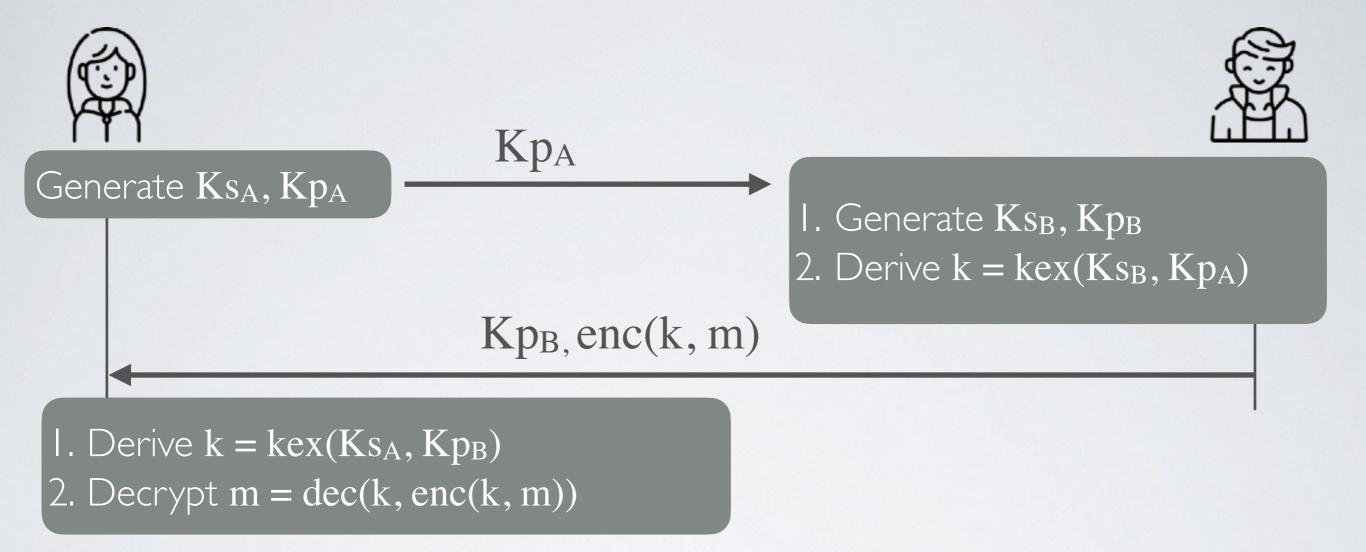
Elliptic Curve Diffie-Hellman-Merkle (ECDH)

ightharpoonup Generate a symmetric key k from two distinct asymmetric key pairs: K_{pA} , K_{sA} and K_{pB} , K_{sB}

 $k = ECDH(K_{sA}, K_{pB}) = ECDH(K_{sB}, K_{pA})$

ECDH Key exchange



Diffie-Hellman-Merkle provides a way to generate a shared key

from two asymmetric key pairs

$$kex(Ks_A, Kp_B) = kex(Ks_B, Kp_A) = k$$

- ✓ Mutual contribution to the key generation
- ✓ No need to send the encrypted shared key