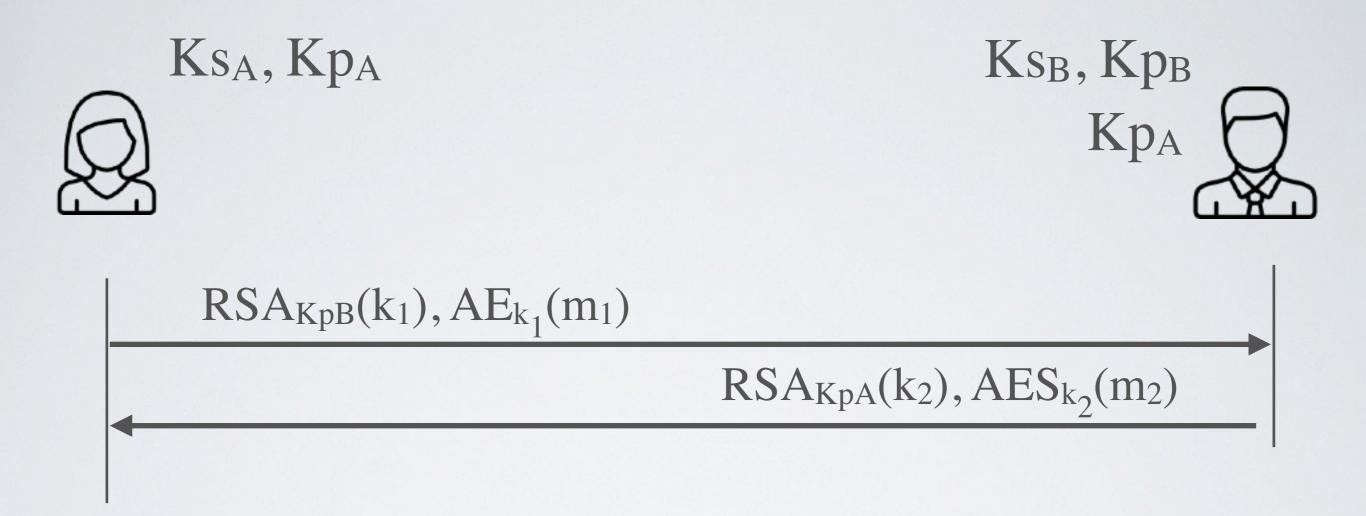
Key exchange using asymmetric encryption



- \bullet The attacker could record the encrypted session, if one day either Ks_A or Ks_B is broken, the attacker can decrypt part of the session
- → Using asymmetric encryption for key exchange does not ensure Perfect Forward Secrecy

What is the solution?

Could Alice and Bob could magically come up with a key without exchanging it over the network?

→ The magic is called **Diffie-Hellman-Merkle Protocol**