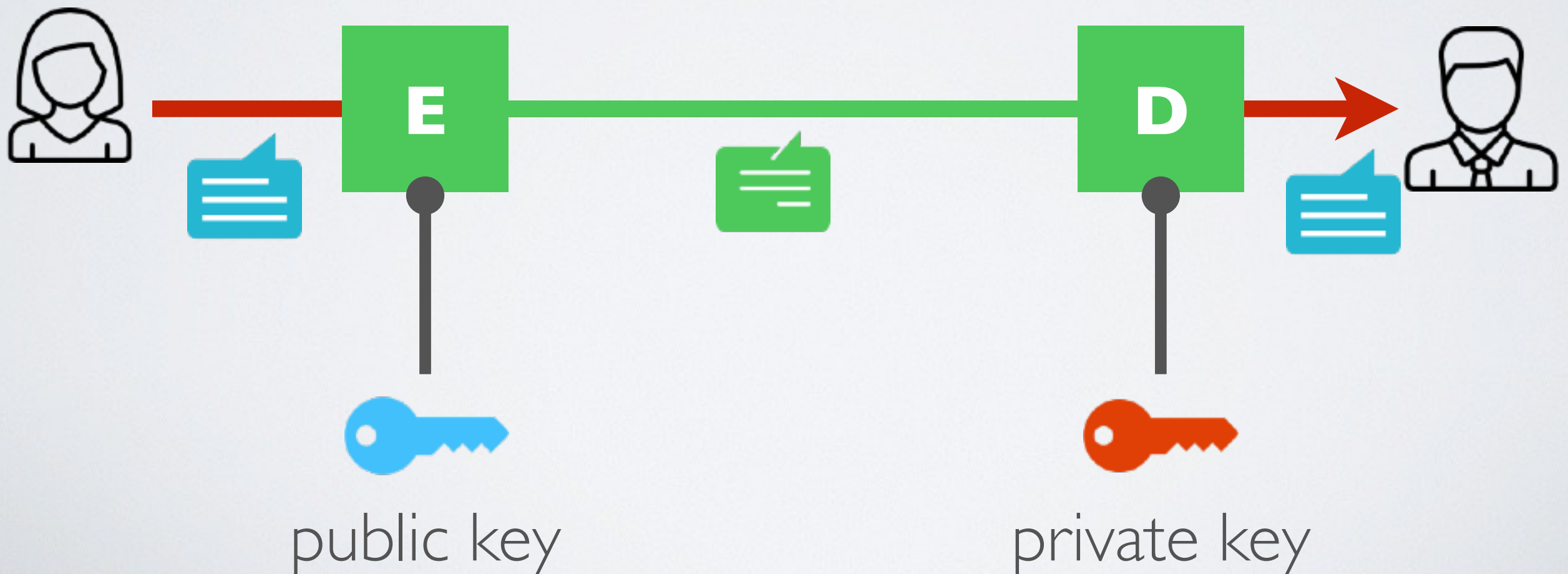
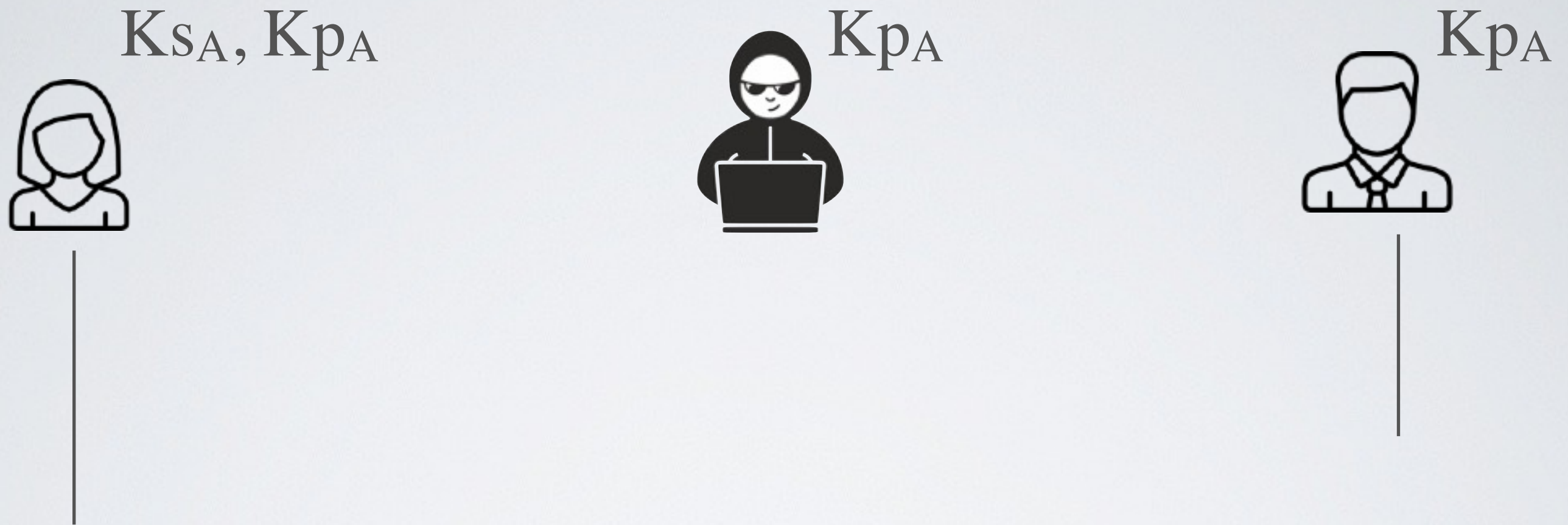


# Asymmetric encryption a.k.a Public Key Cryptography

- ➡ The public key for encryption
- ➡ The private key for decryption



# Asymmetric encryption for **confidentiality**



Bob encrypts a message  $m$  with Alice's public key  $K_{p_A}$

➔ Nobody can decrypt  $m$ , except Alice with her private key  $K_{s_A}$

✓ Confidentiality without the need to exchange a secret key