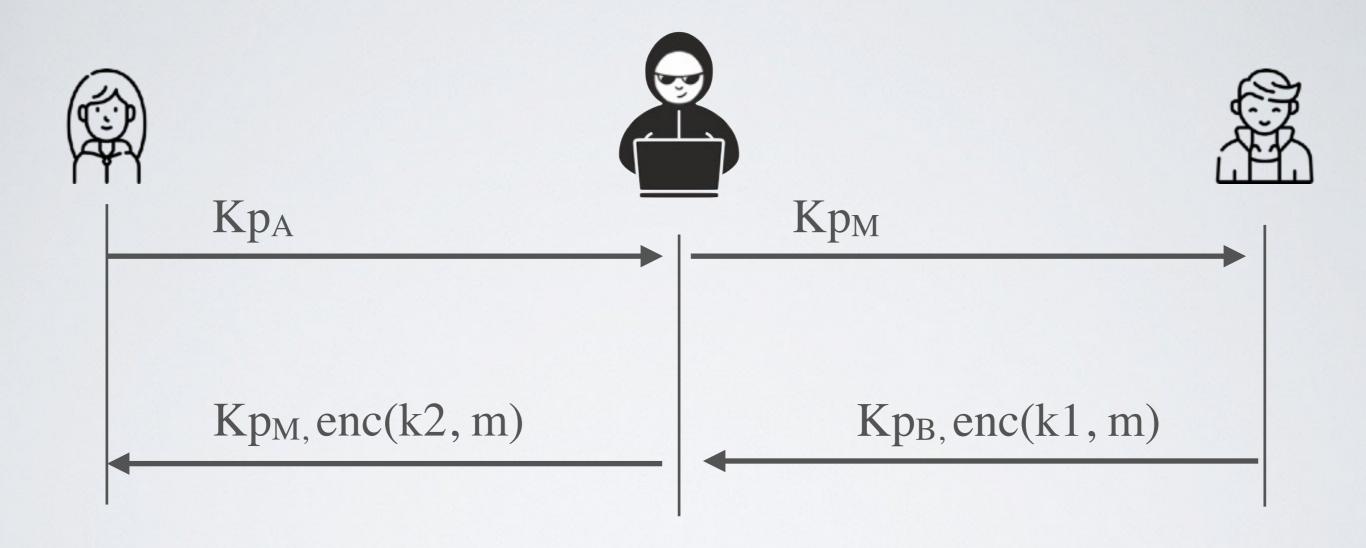
A widely used key exchange protocol

ECDH is in many protocols

- SSH
- TLS (used by HTTPS)
- Signal (used by most messaging apps like Whatsapp)
- and so on ...
- ✓ It is fast and requires two exchanges only
- But how to make sure Alice is talking to Bob and vice-versa?
 Diffie-Hellman-Merkle alone does not ensure
 authentication

Are we done yet?



- ✓ Encryption and key exchange protects against confidentiality ...
- ... but not does not protect integrity