



simplified and one-way authentication

TLS 1.3 (2018)









$N_A, ECDH_A$

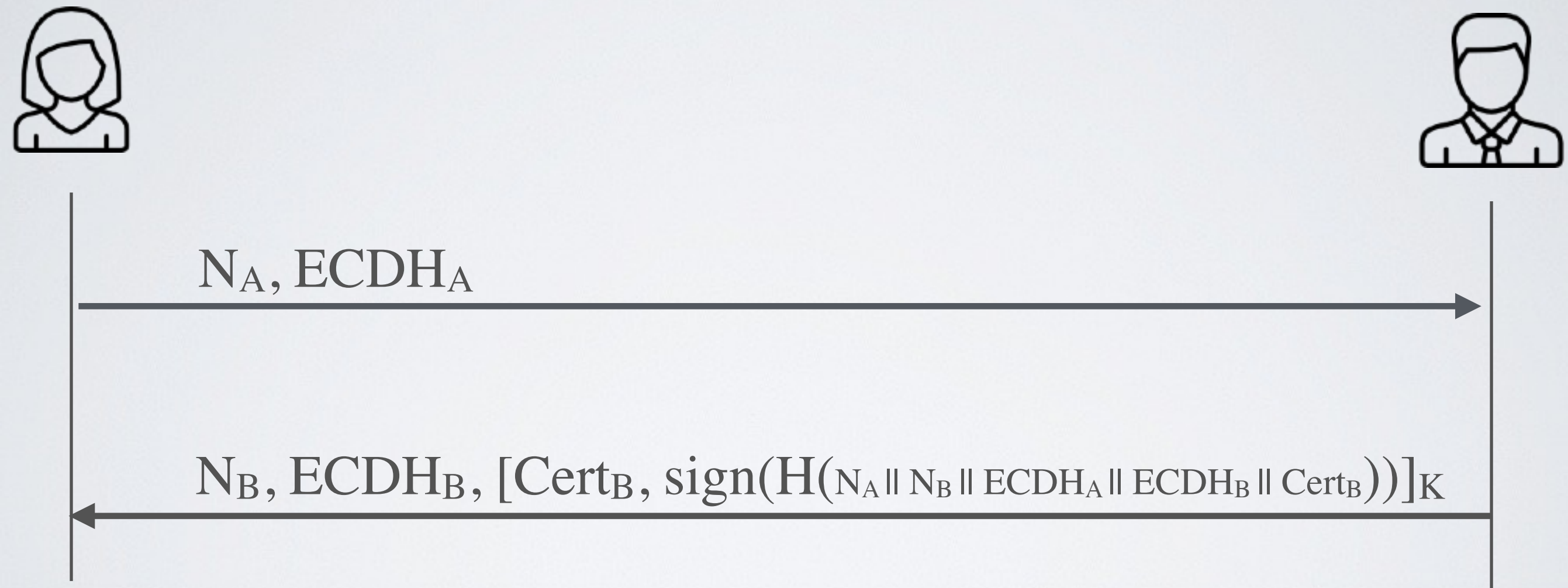


$$\leftarrow N_B, ECDH_B, [Cert_B, \text{sign}(H(N_A || N_B || ECDH_A || ECDH_B || Cert_B))]_K$$



# simplified and one-way authentication

## TLS 1.3 (2018)



# TLS 1.3 is much better than TLS 1.2

- ✓ Only one round in the handshake (vs 2 with TLS 1.2)
- ✓ Faster (use of elliptic curves)
- ✓ Certificate is encrypted (better confidentiality)
- ✓ Protocol has been formally proven  
(does not prevent from implementation bugs)