

Defeat replay attack with a nonce
(not fully secured)











A



Reply at a later response!

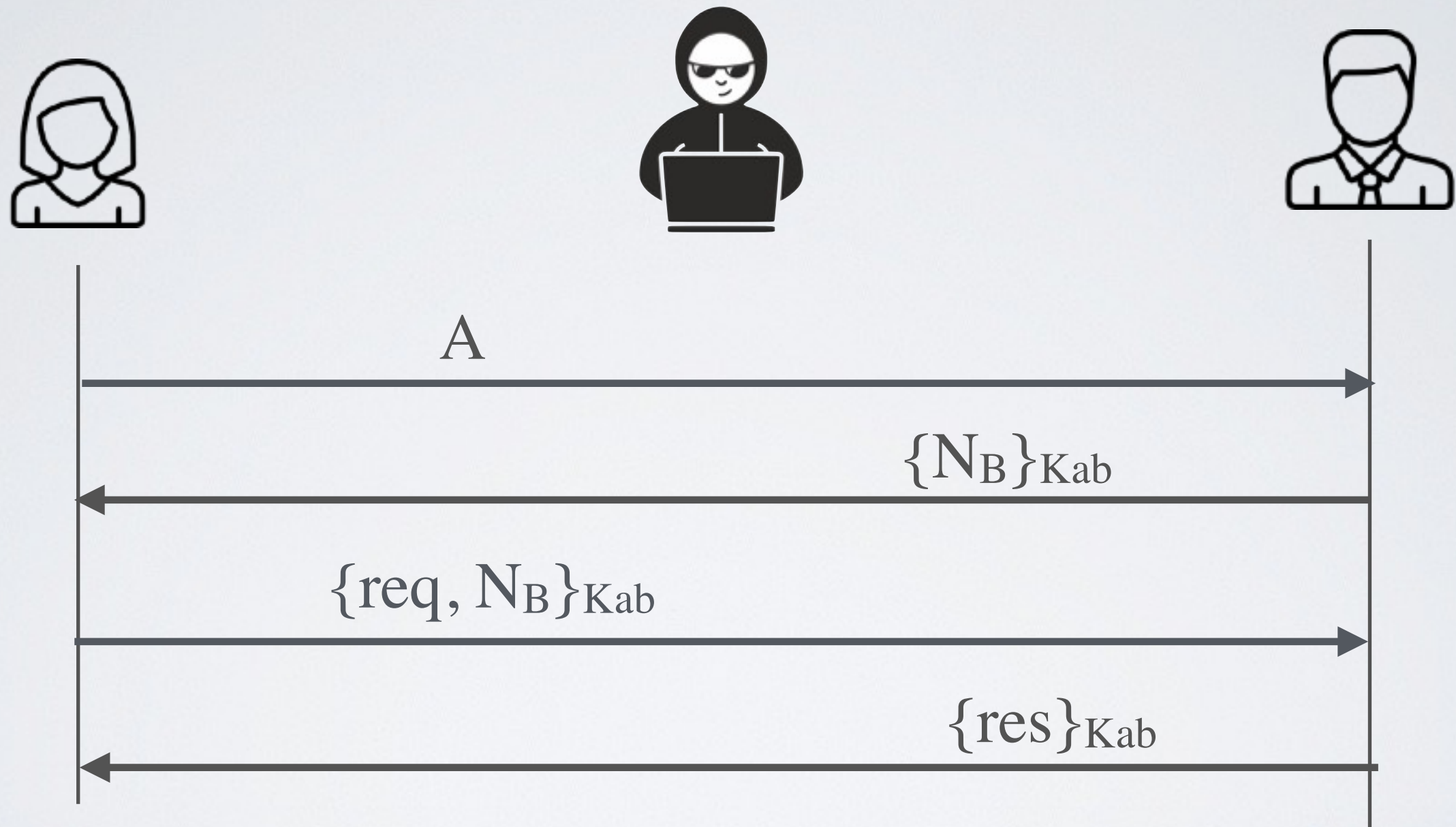
$$\{\text{req}, N_B\}_{K_{ab}}$$


$\{\text{res}\}_{Kab}$




$$\{N_B\}_{Kab}$$

Defeat replay attack with a nonce (not fully secured)



Replay attack on the response!

Defeat replay attack with a double nonce

