

## The fix (1987)











 $\{N_A, K_{ab}, B, \{K_{ab}, A, N_{B'}\}_{Kbs}\}_{Kas}$ 





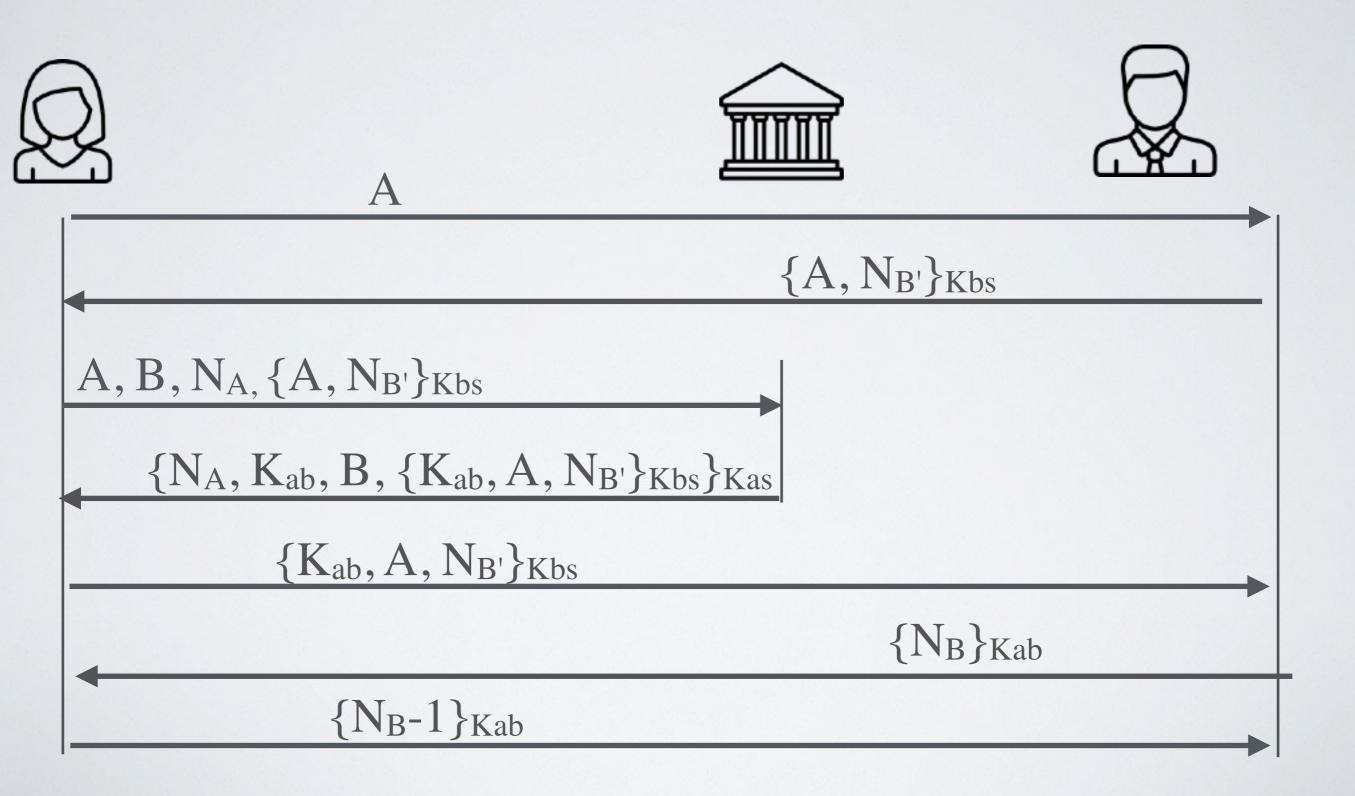








## The fix (1987)



## Kerberos

The Needham-Shroeder symmetric protocol is the basis for the Kerberos Protocol

→ Use by Microsoft Windows for key exchange between machines on the same domain manage by the Active Directory