CSC 580 Cryptography and Computer Security

Key Management and Distribution

Sections 14.1 - 14.2

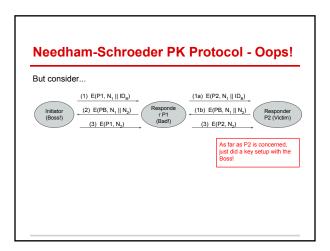
April 12, 2018

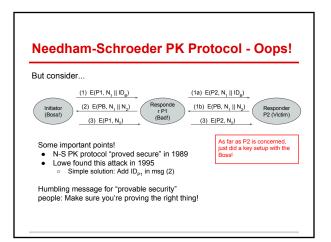
Protocol designed in 1978. From the textbook: $(1) \times (PU_{p_n}[N_1 | ID_{A}])$ $(2) \times (PU_{p_n}[N_1 | IN_2])$ $(3) \times (PU_{p_n}N_2)$ $(4) \times (PU_{p_n}N_2)$ $(5) \times (PU_{p_n}N_2)$ Note: (4) Is not in the actual Needham-Schroeder Protocol! In real protocol: After (3), A and B share secrets N_1 and N_2

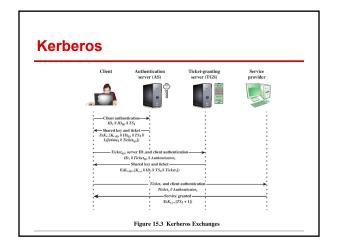
Needham-Schroeder PK Protocol - Oops!

But consider...









Kerberos	
10.00.00	
Demo!	