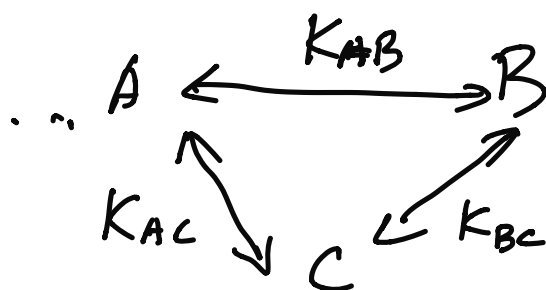
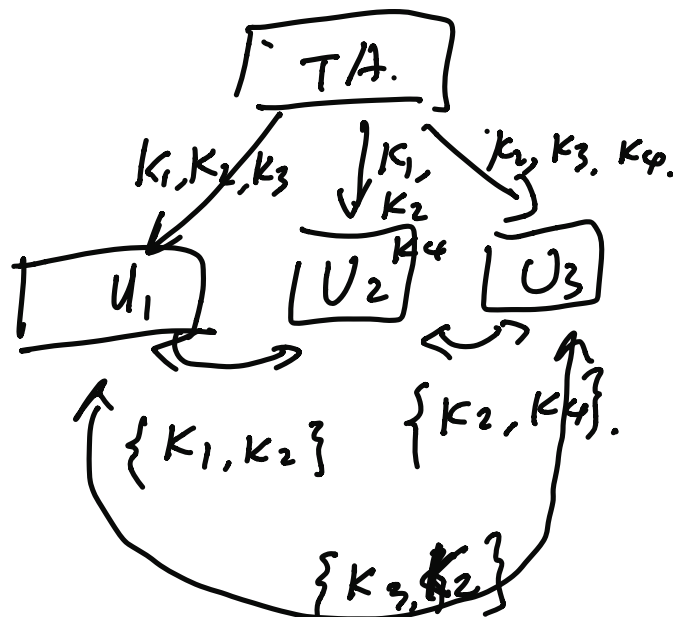


ECE 471/571 Key management

- Key pre-distribution

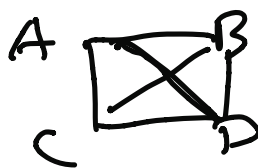


N users.

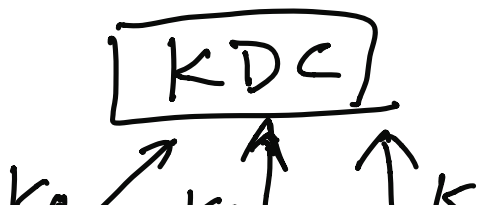
$N=3$, 3

$N=4$. 6

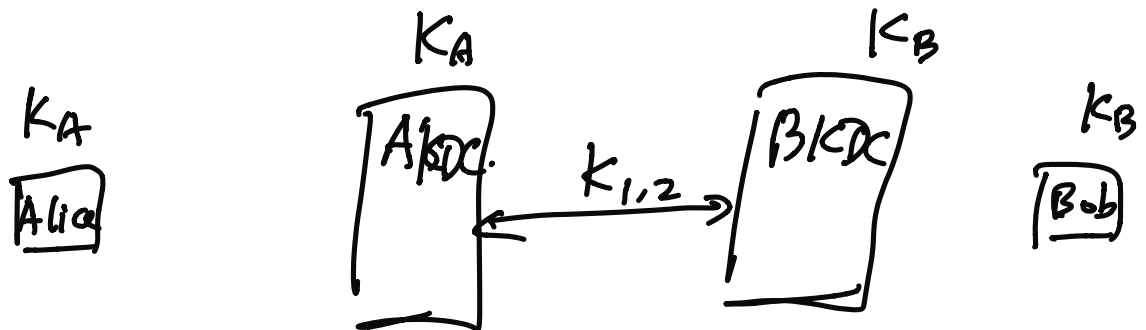
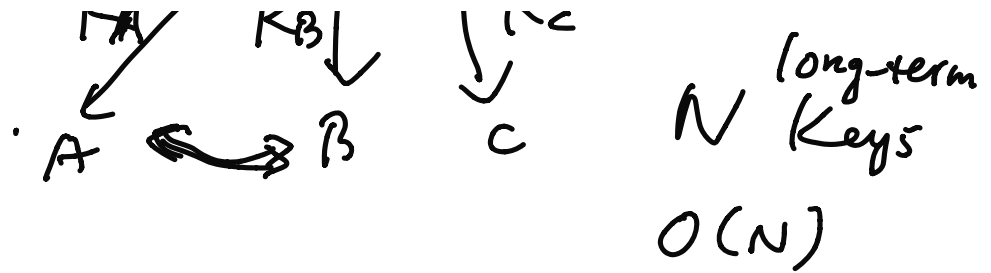
Scalability
issue



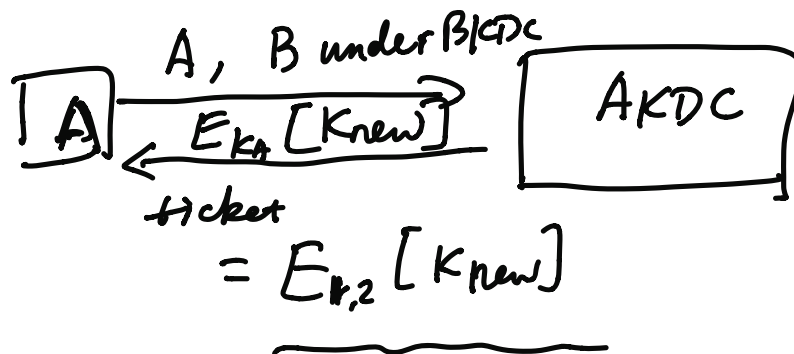
$$\frac{N(N-1)}{2} \sim O(N^2)$$



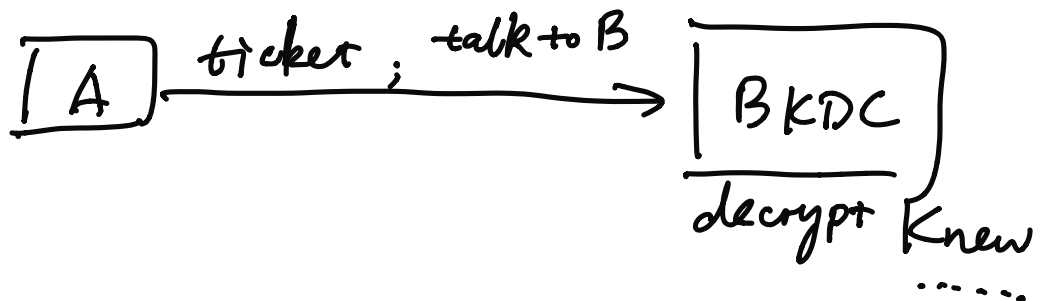
trusted
Key distribution
center



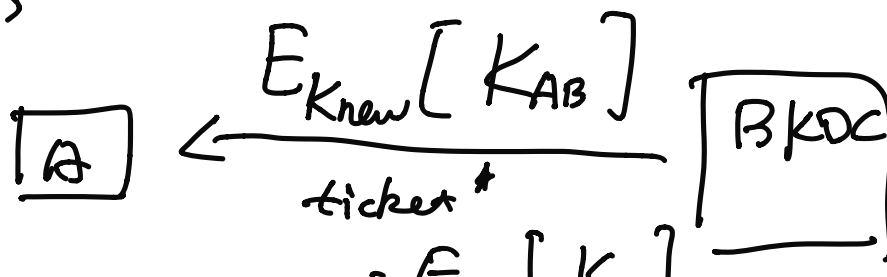
Step 1



Step 2



Step 3



$- \underbrace{K_B L \mid \text{ABJ}}$

step 4

