

Are we secure yet?

Two major issues:

1. **Key distribution**

If $A_1, A_2 \dots A_5$ want to talk, then $(n \times (n-1) / 2)$ keys must be exchanged physically using a secure channel

2. Does not ensure **Perfect-Forward Secrecy**

If somehow Mallory is able to compromise one of the participant at some point in time, she can decrypt all previous communications between Alice and Bob

Session Keys