

Quiz 3

1. Authenticating people is typically based on what you know, what you have, and who you are. Give an example for each of them.

What you know: password, SSN, DoB

What you have: physical keys, credit cards, smart card

What you are: biometrics

2. What is the difference between authentication with Key Distribution Center (KDC) in principle and in practice?

When Alice and Bob want to authenticate each other, KDC first invents a temporarily shared key for Alice and Bob. In principle, KDC encrypts the key with Bob's secret key and directly sends it to Bob. However, in practice, KDC will send it to Alice who then forward it to Bob.