

Multifactor Authentication

Something you learn...
By Artem and Rob

Right idea, Mr. Bond...



Diamonds Are Forever (1971)
United Artists

Classic multifactor “somethings”:

- Something you know (a password, a pin #, the answer to a security question)
- Something you have (a token, a mobile phone, a private key, a card with a chip or magnetic stripe)
- Something you are (your fingerprints, your voice, your retina, your typing style)
- Somewhere you are (your GPS coordinates, IP Geo location)

Real life examples of MFA

- ATM Card: a physical object (something you have) + PIN (something you know)
- The key under a door mat: a physical object (something you have) + where is it (something you know)
- Red button for the nuclear rocket launcher :
PIN + 2 keys

Not MFA!

- Password + PIN
- A key + another key
- Your fingerprint + your face

MFA Demo for non-Duke sites

- Paypal, Ebay, Verisign Labs
- Google gmail
- Your bank