Authentication Overview

Dr Rosanne English

What steps do you take to access a system?

Identification — "I am Fred!"
Authentication
Authorisation
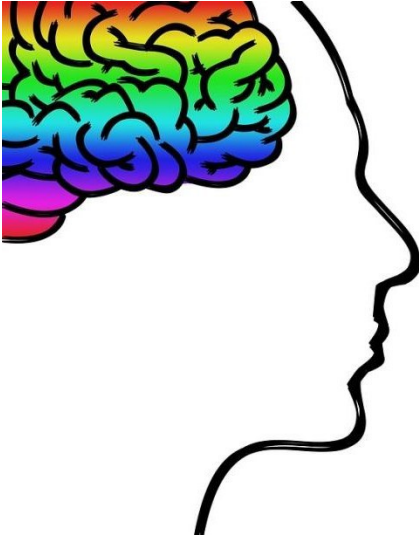
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Authentication

- Prove you are who you claim to be
- By using a distinguishing characteristic

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Authentication Factors

Knowledge: Something you know

Token: Something you have

Biometrics: Something you are

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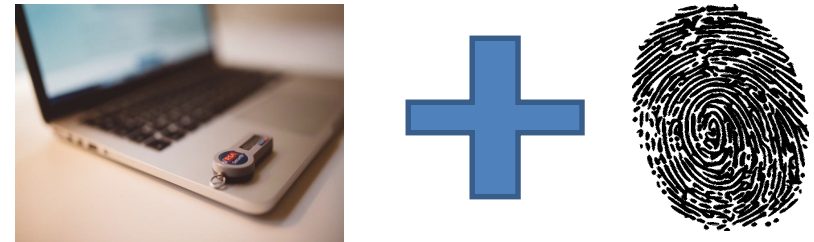
Two (Multi) Factor Authentication

- A combination of authentication from at least two different authentication factor categories

Knowledge plus token

Knowledge plus biometric

Token plus biometric

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The Password Problem

- Re-used a password
- Used an easily guessed password
- Shared a password
- Modified a password for re-use
- Written a password down

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