

Computer Systems B COMS20012

Introduction to Operating Systems and Security

authentication:

who are they?

authorisation:

are they allowed to do this?

accountability:

what have they done?



authentication

You can authenticate with something you ...

- 2
- 7
- ?

authentication

You can authenticate with something you ...

• know e.g. a password

• have e.g. an ID card

• *are* e.g. biometrics

p@s\$w0rD





authentication

You can authenticate with ...

• sth. you know e.g. a password

• sth. you have e.g. an ID card

• *sth. you are* e.g. biometrics

• your location

your behaviour

extra factors, becoming much more widespread



authorization

- Occur after authentication
- Verify and enforce rights to perform actions or access data

More on this topic in Lecture 10



accountability

- Keep a record of what happened
 - Event logs
 - File access logs
 - etc.
- Investigating computer misuse: forensics
- Detecting misuse: intrusion detection

More on this in Year 4 unit Systems & Software Security



This week focus: authentication



