

CE0973a - Issues in Network Security

12: Roundup, Law and Ethics

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Monday, 11th April 2016

Past Papers

2010	Passwords, MAC spoofing, Law and Ethics
2011	???
2012	DoS/DDoS, Keyspace/rainbow tables, scanning/switching
2013	Passwords, Firewalls, Malware
2014	App, transport layer attacks, hacking/firewalls, intruders
2015	X509, filter types and features, IDS types and features
2016	Coming soon ...

2016 Exam Format

Minor change from previous years:

- 1 First question: compulsory
- 2 Choice of remaining two

2016 Exam Format

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Law and Ethics

- We're not lawyers!
- Need to understand the law though
- Contracts, duties, delict
- Politics too
- Subpoenas, warrants, assistance

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Contract, Duties, Delict

- Key aims: do get paid, don't get sued!
- Contract: consensus, consideration (except Scotland sometimes!), capacity
- Don't breach it, or court can enforce
- Delict (Tort elsewhere)
 - Duty of care owed
 - Duty of care breached
 - Damages caused
- If in doubt, get proper legal advice to cover your back.
Indemnity!

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Data Protection Act

- Data Protection Act 1984 ¹
- Data Protection Act 1998 ²
- Privacy and Electronic Communications Regulations 2003 ³
- People get rights
- Companies get obligations

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 - For lawful purpose, not repurposed
 - Adequate, not excessive
 - Accurate and current where applicable
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 - Kept secure (TalkTalk take note...)

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- Consent (except national security, crime/tax, domestic)
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Early computer hacking and phreaking was difficult to prosecute; sometimes charged as 'theft of electricity'!
UK: Computer Misuse Act 1990⁴ addressed this, making it a crime to:

- Knowingly
- Without authorisation
- Use computer intending to cause access to any program or data
- Two years prison
- Five years, in connection with any other crime

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- Serious damage . . . life in prison (human health/infrastructure, economy, environment, national security of *any* country)

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Defences, Criminal v Civil

- Guilty beyond reasonable doubt for criminal
- Prosecution must prove the act was knowingly unauthorised
- Balance of Probabilities for civil
- Pen-test: get proof of authorisation, get out of jail free.
- Liability is trickier...

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Week 12 Tasks

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- Try writing a client agreement for pen-testing (not marked)
- Mark in lab 9-11 tomorrow, or email any questions

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