



Network Security for ICT Co-ordinators



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Introduction

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- Further details available at: <http://escarpment.net/>



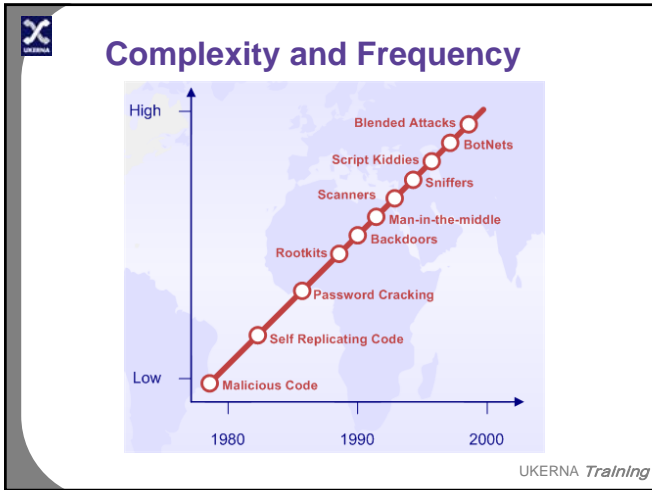
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Background

- Computing has changed:
 - ICT is becoming more critical
 - ICT Security threats are increasing
 - Internet was very small...
- Why bother:
 - Keeping control and availability
 - Legal, DPA and bad PR
 - Reactive work loads

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- ### Passwords
- Primary defence from attack
 - Post-IT notes and under keyboards
 - Change them frequently
 - Choose good passwords
 - BIOS Restrictions
 - Screensavers
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- ### Anti Virus
- Essential
 - Ensure it is regularly updated
 - Are all vectors covered?
 - Floppy Disc
 - USB Stick
 - Email
 - Cover for staff and students
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Malware

- Adware, Spyware, Malware, Anti-X
- Can be very dangerous
- Malicious code
- Key loggers getting more complex
- Sending SPAM from institution
- Be careful what software you run
- Phishing attacks increasing

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Backup

- Critical, imagine what would happen...
- Backup can take a number of forms:
- Traditional Tape Drive
- Automated Network Robot
- USB Hard Disc
- Ghost Technology
- Network Synchronisation
- A finally, test the backup!

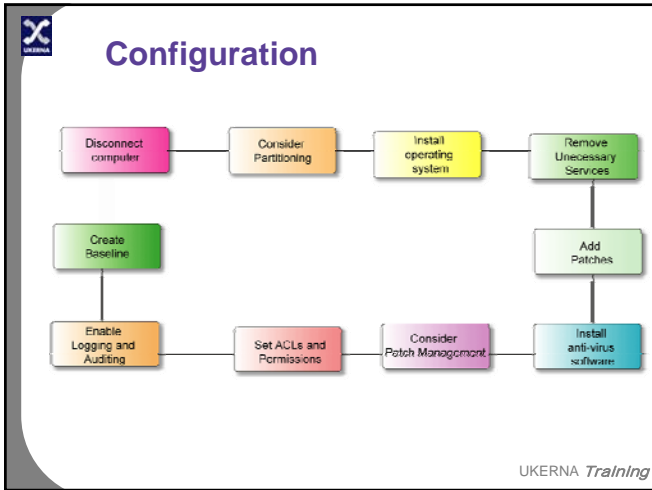
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Patching

- A fact of life
- Operating Systems, and programs contain bugs and will need patching
- Automated Systems
- HR for Patching
- Advance Notifications

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- ### Wireless
- Ubiquitous computing is popular
 - Wireless is easy to configure
 - ...but hard to secure
 - Can someone sit outside and...
 - MAC Address Filtering
 - Hiding SSID
 - WEP Encryption
 - ... is just not enough!
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- ### Firewalls
- Block malicious traffic coming in and out of the network
 - Internet threats are complex and frequent
 - Something is required to protect the internal network
 - Hardware firewalls vs Software firewalls
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Disposal

- What happens when you dispose of a PC or hard discs?
- What happens to deleted files?
- Does formatting remove data?

- Data disposal policy
- Wiping tools

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Moving forward

- Educating users
 - Top ten security resolutions
 - Training courses
 - Staff/institution newsletters
- Asking vendors security related questions
- Reviewing procedures

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- Portfolio of network based training
- Over 10 different courses
- Training venues in many locations
- Comprehensive course workbook + CD

- Basic Networking
- Wireless LAN Fundamentals
- Firewalls: Planning and Implementation
- Using Logfiles for Security

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Questions?

<http://escarpment.net/>

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