

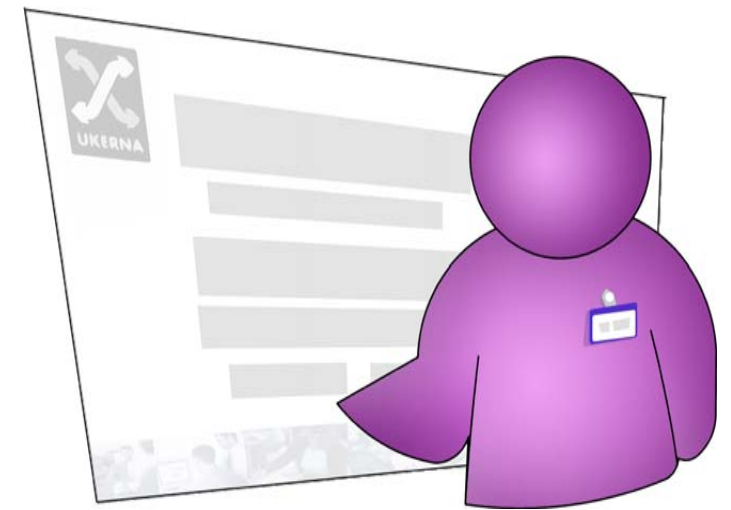
Network Security for ICT Co-ordinators





Introduction

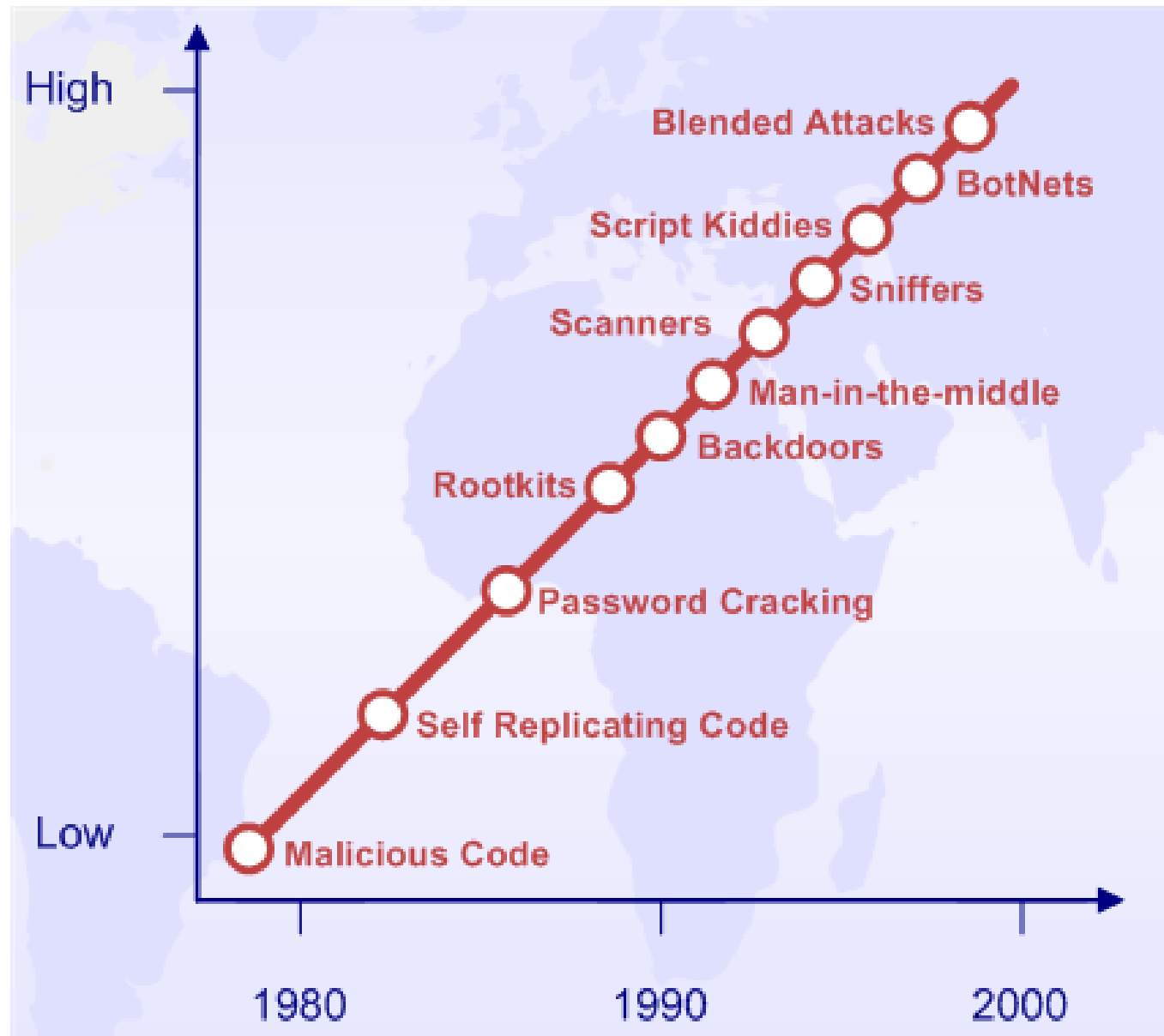
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- UKERNA Contracted Trainer
- Further details available at:
<http://escarpment.net/>



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

Complexity and Frequency



Passwords

- Primary defence from attack
 - Post-IT notes and under keyboards
 - Change them frequently
 - Choose good passwords
-
- BIOS Restrictions
 - Screensavers



Anti Virus

- Essential
- Ensure it is regularly updated
- Are all vectors covered?
 - Floppy Disc
 - USB Stick
 - Email
- Cover for staff and students

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

Backup

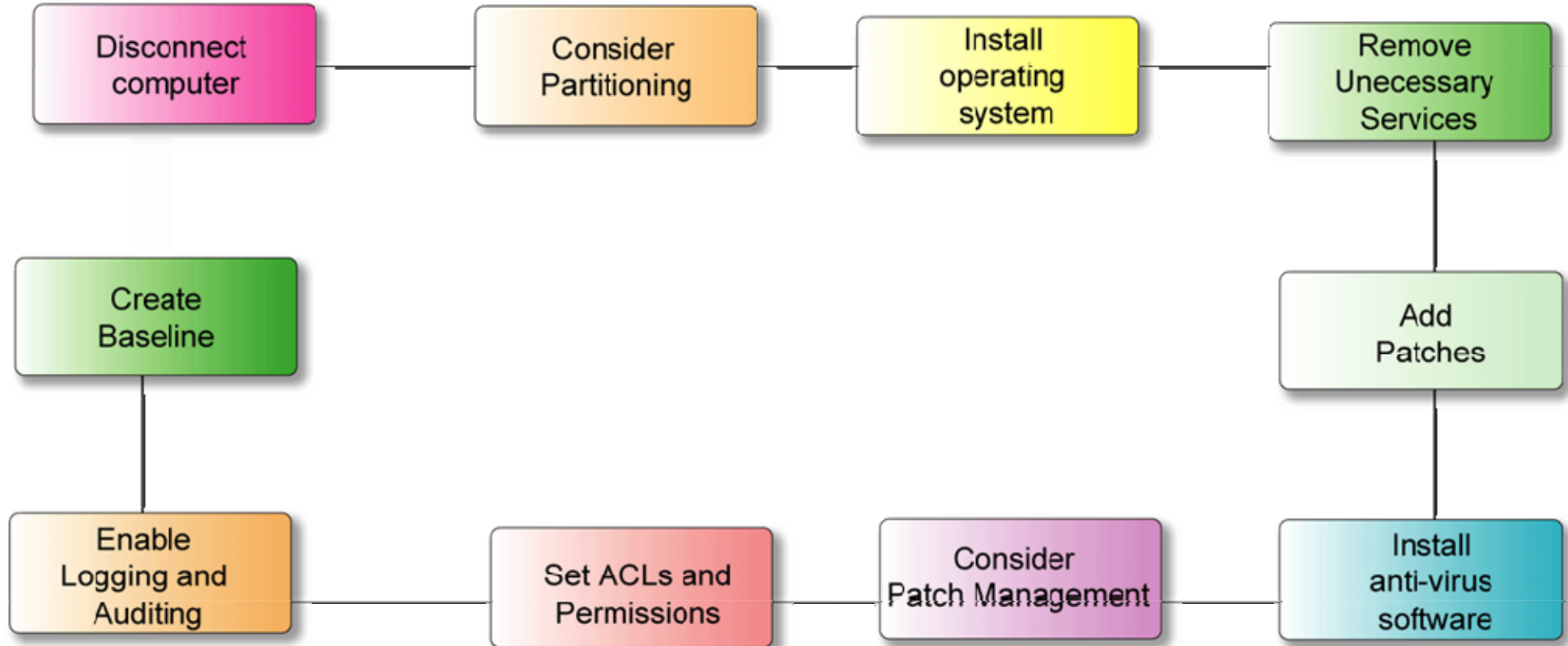
- Critical, imagine what would happen...
- Backup can take a number of forms:
- Traditional Tape Drive
- Automated Network Robot
- USB Hard Disc
- Ghost Technology
- Network Synchronisation
- A finally, test the backup!



Patching

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

Configuration



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!

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

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

Moving forward

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



UKERNA Training

- 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

Questions?

<http://escarpment.net/>