

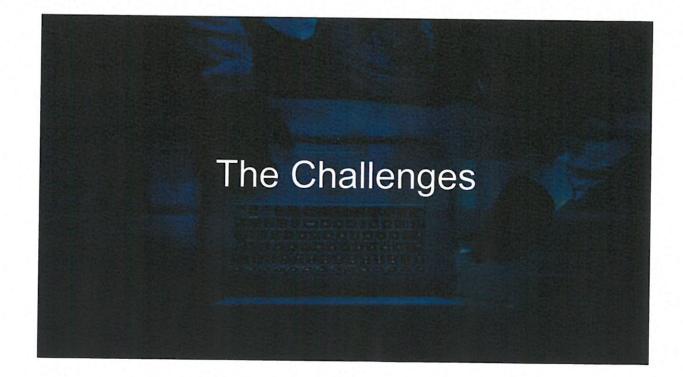


<u>Aims</u>

Help you to keep your organisations safe

Objectives

Challenges
3 Steps to cyber security
Simple ways to reduce risk
Resources



How do you feel about (cyber) security?

- It's expensive
- It's a hindrance
- It's not my problem
- What benefit does it give the business?

Challenges

Charities and Voluntary Sector

- Only 14% senior charity employees believe their organisation is very well protected (ThirdSector, 2016)
- "....knowledge around cyber security varied considerably..."
- ".....cyber security......more of a business issue than one for charities...."
- "....still a need to raise basic awareness of cyber security among charities."

(UK Gov't / MORI, 2017)

Challenges

Law Enforcement

- Jurisdiction
- Online anonymity
- Skill set
- Changing technologies
- Access to threat intelligence

3 Steps to Cyber Security

- Understand the threats
- Understand your business / organisation
- Risk management



Understand the threats

- Approx 5 million fraud and computer misuse crimes year ending June 2017 (ONS)
- Approx 50% crime is fraud
- £11 billion lost through cybercrime/fraud 2015/16 (Action Fraud)
- £29 billion in 2016 (Beaming)
- 1.3 million businesses it by phishing
- 1.3 million (viruses), 1 million (hacking), 390,000 (ransomware)
- £7.4 million (ransomware), £5.9 million (phishing)

Where does the threat come from?

- Organised crime
- Hostile Governments
- Hacktivists
- Script kiddies
- Malicious insider
- The 'accidental' insider

The Cyber Criminal's Toolkit

- · Social Engineering, emails, phone calls, in person
 - scarcity, liking, authority
- Phishing / Spear phishing / Whaling
- DDoS
- Malware
 - Ransomware
- Hacking
 - SQL injection
- Compromised websites

Understand your business / organisation

- Culture
- How does my organisation use the internet?
- What are my assets?
 - What are they worth to my organisation
 - Information Audit



What would be the impact if you lost those assets?

Risk = Threat x Vulnerability x Impact (Cost)

Reduce Accept Transfer Eliminate (Avoid)

Simple steps to keep your network secure

- Use Anti-Virus software and keep it updated
- Use a perimeter firewall and keep it updated
- Take regular backups to multiple destinations
- Look out for scam messages
- Use multiple strong passwords
- Restrict administrative rights
- Staff awareness
- Secure mobile devices
- Take care when using USB keys

How can I protect myself?

"Anti-Virus" Software

Many reputable anti-virus, anti-malware or endpoint security products available.

- Paid or 'freeware' offerings
- Do your research compare products and features
- Don't buy features you don't need
- Many vendors to choose from, e.g. Symantec, Avast, McAfee, ESET, AVG, Kaspersky etc.

Firewalls

"Enemy at the gates!"

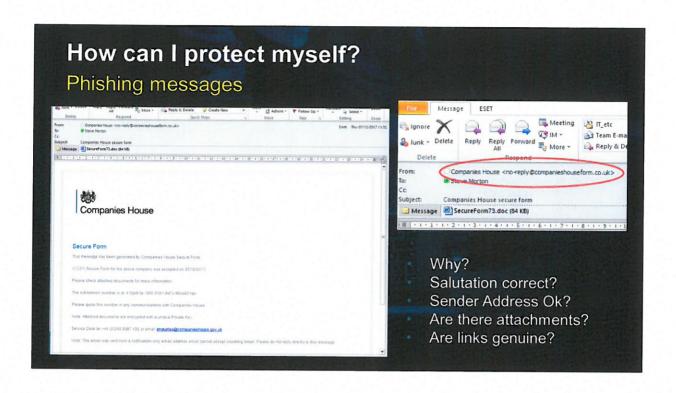
- · As with AV, there are paid or 'freeware' offerings
- · Compare products and features and buy what you can afford
- Change default passwords!

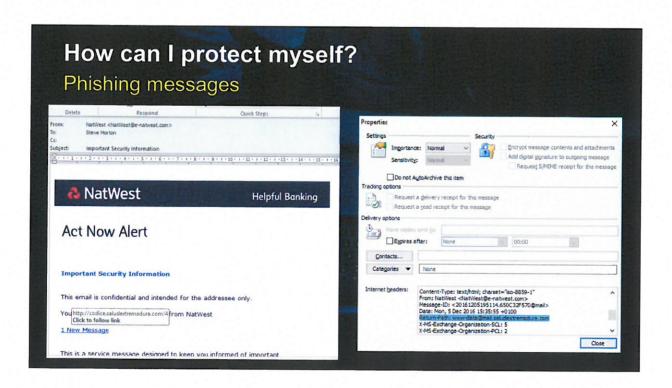
How can I protect myself?

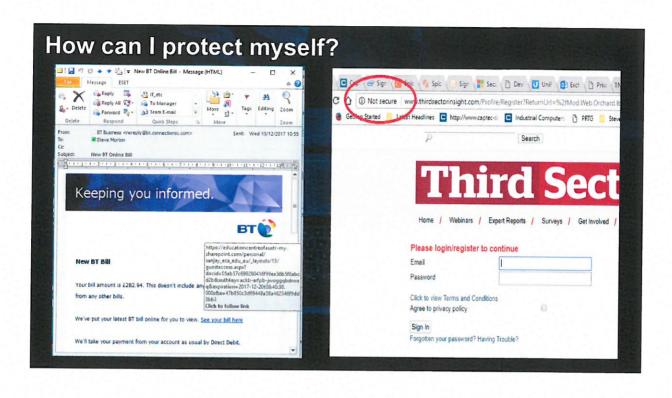
Backups

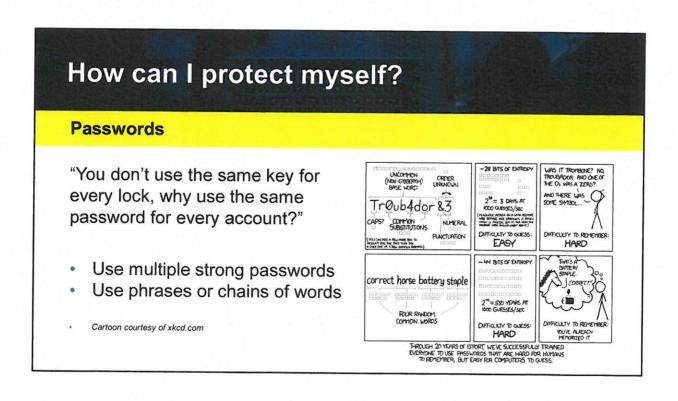
Backup your data, backup up your backups. Oh, and backup again!

- Take regular backups
- Keep backups offsite
- Change the backup media regularly
- Run data restore tests periodically
- Ensure that staff know what to do in the event of data loss









Restrict Administrative Rights

- Administrator accounts should not have internet access
- Local administration rights should only be granted when needed
- Ensure that User Account Control (UAC) is enabled

How can I protect myself?

Staff Awareness Training

- Undertake regular training sessions with staff to make them aware of potential problems
- · Educated users are safe users
- Distribute links to relevant websites
- Establish guidelines and policies for the use of computers and mobile devices and let users know the rules

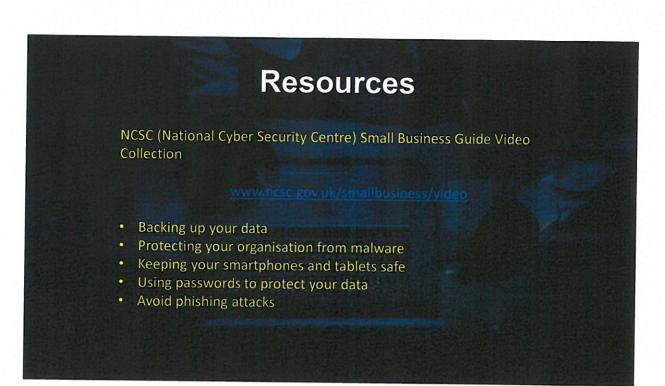
Mobile Security

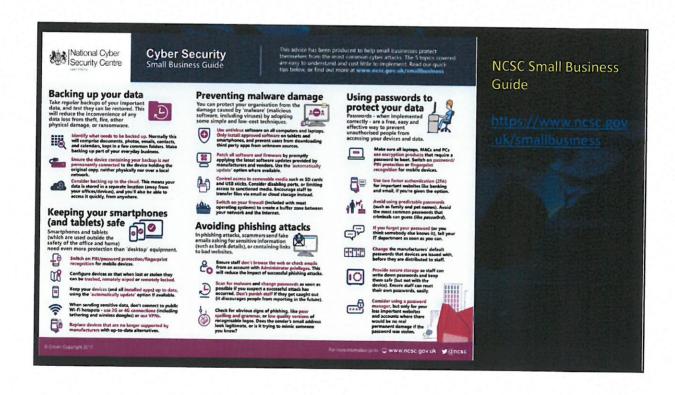
- Install suitable security software on mobiles and tablets
- · Inform users of relevant policies
- Enable remote wiping
- Encrypt your mobile device or Laptop

How can I protect myself?

USB Device Security

- Always virus scan USB drives
- Never use found or unsolicited USB drives
- Consider using secure USB pens for secure data transport











Cyber Essentials Scheme

5 Technical Controls

- Securing your internet connection
- Secure your devices and software
- · Control access to data and services
- · Protect from viruses and other malware
- · Keep devices and software up to date

ISO 27000 Series

Information Security Management Standards

- Risk based
- · International standard
- · Standards on risk management, business continuity, cyber security
- · Compliance without accreditation

ActionFraud National Fraud & Cyber Crime Reporting Centre 100000123 2040 1000

www.actionfraud.police.uk

