Fighting Cyber Crime
Introduction

Regional Cyber Protect Officer for SEROCU

To engage with, and develop relationships with companies and organisations within the region to promote cyber security and the role of the SEROCU CCU.
The Regional Units

- North East (NEROCU)
- North West (TITAN)
- Yorkshire and the Humber (ODYSSEY)
- East Midlands (EMSOU)
- East of England (ERSOU)
- Wales (TARIAN)
- West Midlands (WMROCU)
- South West (ZEPHYR)
- South East (SEROCU)
- (London ROCU)

- NCA
  - Regional Organised Crime Units (SEROCU)
  - Local Forces
    - (Surrey, Sussex, Kent, Hampshire, Thames Valley)

Regional Organised Crime Unit
Cyber Crime In Numbers

• 3.9 Million cyber crimes in 12 months (2016)
• 28% of businesses reported attacks to Police

• Cost to UK economy...
  £27 Billion in 2011 → £49 Billion in 2014

• Average breach costs £65k to £115k (small company)
• 500 Million new viruses in 2015
• 3000 DDoS attacks per day
• 500K phishing attempts per day
• Password policy (repeat passwords)
• Educate staff not to use same ones as personal accounts
HOW SECURE IS MY PASSWORD?

It would take a computer about 2 QUATTUORDECILLION YEARS to crack your password.

Dashlane can help you remember all of your secure passwords - and it's free!

TIP: USE A PASSWORD MANAGER TO SECURE AND EASILY REMEMBER YOUR PASSWORDS


Get Dashlane - It's Free!

LENGTH: LONG

Your password is over sixteen characters long.

Never forget your long, secure password by using a password manager.
Have You Been Compromised?

';--have i been pwned?

Check if you have an account that has been compromised in a data breach

email address or username

pwned?

122 pwned websites
1,308,726,979 pwned accounts
37,747 pastes
29,634,108 paste accounts
A Socially Engineered Story
Peel’s First Principle

“The basic mission for which the Police exist is to prevent crime and disorder”
It Is Preventable!!

80%

...of cybercrime is preventable (GCHQ)
Becoming a Victim

How will you find out..?

1) The criminals themselves
2) An irate supplier/customer
3) The Police
4) Member of staff
5) The press
6) Internal computer software

7) You may never find out..
Ransomware

- Currently targeting individuals
  → Moving towards businesses

- Demands from £600+
- No guarantees to get data back
- Supporting criminality
- Repeat victimisation

➢ Backup using an external HDD
➢ Do it regularly
➢ Store backup securely
➢ Cloud storage not immune
A Recent Investigation (Malicious Insider)

- Richard Neale sent a “Wipe Command” to 900+ Aviva employees devices - BYOD
- Further access and alterations made into companies systems
- Tried to hide his involvement by using VPN’s but forensic investigation identified incriminating artefacts on his devices
- Cost the company £500K
- Convicted and serving 18 months
Cyber Essentials

1. Boundary firewalls and internet gateways
2. Secure configuration
3. Access control
4. Malware protection
5. Patch management
Free Stuff

THE LITTLE BOOK OF CYBER SCAMS
TalkTalk

Fined £400k

Global Turnover £1.84b

Possible fines of 4% of global turnover or €20M

General Data Protection Regulation
Action Fraud

- Individuals
- Businesses
- Charities

- Data in from banks, large businesses, police, data providers, Government etc

- National Fraud Intelligence Bureau

- Alerts
- Intelligence

- Law enforcement as relevant: NCA/HMRC/DWP
Key Points

Easy take-aways..

1) Update your OS (Microsoft/Apple/etc)
2) Strong different passwords (consider 2FA)
3) Set AntiVirus to auto-update & scan
4) Disable macros in Microsoft Office
5) Control use of USB sockets
6) Administrator account control
7) Backup strategy
8) Upgrade any XP machines

9) EDUCATE YOUR STAFF!!
Thank You

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