Zephyr

RCCU

South West Regional Cyber Crime Unit

WHO ARE WE?

- One of nine RCCUs established in Jan 2014 to cover England and Wales
- All sit within the nine ROCUs (South West - Zephyr)
- Small unit but expanding with links to regional and national Law Enforcement as well as Government Departments, academia and industry
- Focussed on dealing with serious incidents of cyber crime within the SW region
- Expectation includes increasing cyber awareness across partners and creating local partnerships – Championing the use of (CiSP) Cyber Security Information Sharing Partnership
- Force/Region/National and International

HOW?

Delivery against the 4 P's Serious and Organised Crime Strategy

- **PURSUE**
- Prosecute & disrupt criminals engaged in cyber crime

- **PREVENT**
- Prevent people from engaging in cyber crime

- **PROTECT**
- Increase protection from cyber criminals

- **PREPARE**
- Reduce the impact of cyber crime when it occurs

WHAT IS CYBER CRIME?

ACPO/NPCC defines as, *'The use of networked computers or internet technology to commit or facilitate the commission of crime'.*

Three fold categorisation dividing cyber crime into:

- 'Pure' online crimes where a digital system is the target as well as the means of attack. Includes attacks to disrupt IT infrastructure, exfiltration of data, the compromising of data integrity and making data unavailable
- 'Existing' crime that has been transformed in scale or form by the use of the internet. The growth of the internet has allowed crime to be carried out on an industrial scale
- Use of the internet to facilitate drug dealing, people smuggling and other traditional crime types

Some stats....

- 81% of large organisations and 60% of small organisations reported a security breach (reduced slightly), although…
- Severity and impact has increased…the worst breaches averaging at £65k - £115k for small organisations and between £600k - £1.15m for large.
- 2014 saw more than 1,500 significant data breaches – global companies losing hundreds of millions of user details, sometimes including credit card and bank account details
- Credit card details with CVV being sold for as little as $1 on black market exchanges
- Crime rate in England and Wales more than doubled to 11.6 million offences – primarily because of the inclusion of 5.1m incidents of online fraud and 2.5m incidents of cybercrime
- More than 70% of fraud is now committed online
- 2013 McAfee estimated Economic Cost of Cyber crime globally as $500bn
- *Cyber Security identified as a Tier 1 threat to the UK, alongside Terrorism, War and Natural Disaster*
- *GCHQ report - 80% cyber crime preventable*

What are we seeing in the SW RCCU?

- DRIDEX/SHIFU - This is banking malware, primarily linked to word documents. When opened it advises you to ‘enable macros’ (macros basically automate frequently-used tasks). It then waits until a person visits a banking website and steals login details. This is then used to move money.
- RANSOMWARE - Malware such as Cryptolocker and Cryptowall. These are executable files that are hidden as .pdf files. When opened they encrypt files on a network. A ‘ransom’ is then requested, usually payable in Bitcoin, to de-encrypt the files.
- SPEAR-PHISHING - Targeted attacks by e-mail that may entice you to a website or be the delivery mechanism for malware. These can be very familiar in tone or be ‘spoofed’ e-mailed addresses from clients or suppliers with invoices attached.
- NETWORK INTRUSION – targeting businesses and public authorities
- DDOS - Organised Crime Groups and kids!
- ‘Spoofed’ websites.

The Attraction?

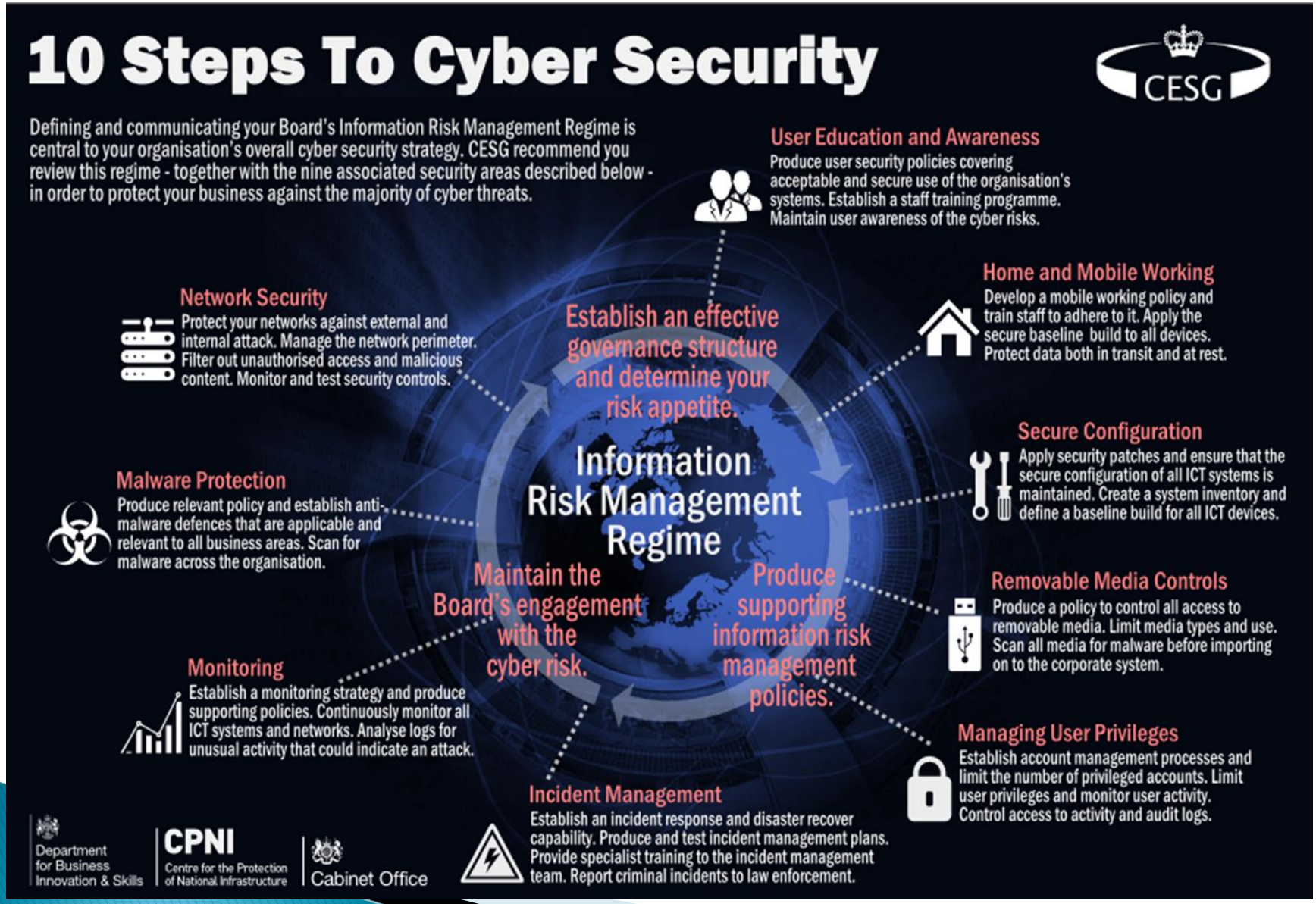
Traditional Crime

- Presence at the crime scene
- One offence at a time
- High risk/low reward
- Local enquiries
- Victim reports to police

Cyber Crime

- Remote from the crime scene
- Multiple offences at once
- Low risk/High reward
- International enquiries
- Victim reputation

PREVENTION IS BETTER THAN CURE……



https://www.cert.gov.uk/cisp/

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Cyber-security Information Sharing Partnership (CiSP)

CiSP

A CATALYST FOR COLLABORATION

The Cyber-security Information Sharing Partnership (CiSP), part of CERT-UK, is a joint industry government initiative to share cyber threat and vulnerability information in order to increase overall situational awareness of the cyber threat and therefore reduce the impact on UK business.

CiSP allows members from across sectors and organisations to exchange cyber threat information in real time, on a secure and dynamic environment, whilst operating within a framework that protects the confidentiality of shared information.

CiSP members are also able to receive network monitoring reports. This free service allows users to receive tailored feeds of information from CERT-UK covering any malicious activity that we see on your network.

Users can sign up for this service when they join CiSP or register your interest and a member of the team will get back to you when you have the necessary information.

PREVENTION IS BETTER THAN CURE……

10 Steps to Cyber Security (from CERT UK)
https://www.gov.uk/government/publications/cyber-risk-management-a-board-level-responsibility

Critical Security Controls guidance (20 steps)
http://www.cpni.gov.uk?advice/cyber/critical-controls/

Cyber Streetwise
http://www.cyberstreetwise.com

Cyber Essentials
https://www.cyberstreetwise.com/cyberessentials/

Get Safe Online
https://www.getsafeonline.org/

ANY QUESTIONS?

CONTACT DETAILS

gavin.webb@avonandsomerset.pnn.police.uk
SWRCCU@avonandsomerset.pnn.police.uk

07557 083226
0117 372 2446

DI Gavin Webb
DS Aled Jones

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