CYBER PRESENTATION

(Advice for Business)

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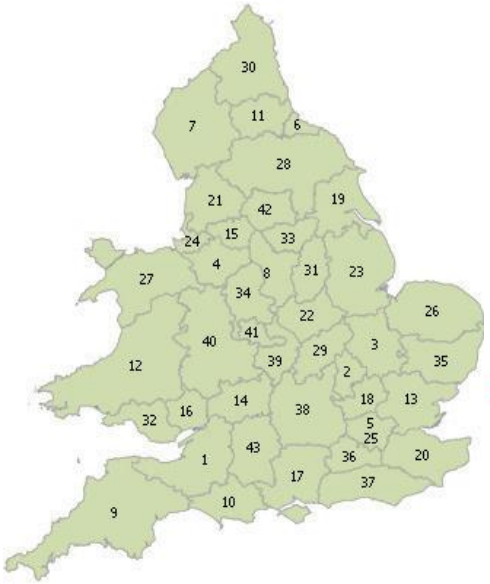
CYBER AWARE

@SECyberprotect SECyberprotect SEROCU Cyber Protect South East ROCU Cyber Protect

National Cyber Security Centre
a part of GCHQ

south east
Regional Organised Crime Unit
Cyber Crime Unit

WHO ARE WE?

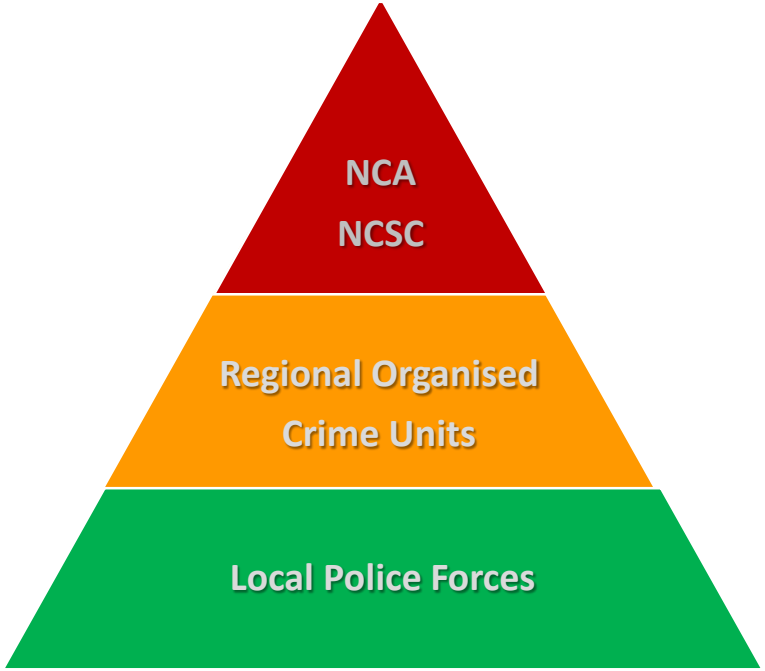


Our Aims

- Gather Intelligence
- Investigation serious Cyber Crime
- Protecting / Preventing major cyber threats

Focussing on

- Cyber dependant crime - Ransomware; Data Breaches; Data Theft; Extortion; DDOS
- Cyber enabled fraud - CEO; Mandate; Fake Invoice
- Inside Threat - Data theft; Damage; Fraud



CYBERCRIME IN NUMBERS

- Av. age of UK Cyber offender is 17 yrs old compared to traditional crime offender of late 20's
- 32% of UK organisations had a Cyber attack in the last 12 months[2]
- Action Fraud receive 23,000 Phishing reports a month[2]
- 1 in every 11 recorded crimes is a Cyber Crime[3]
- 2018/19 saw a 1.4% increase of Cyber dependant crime[1]

1 – Cyber National Assessment 2019

2 – Cyber Security Breach Survey (CSBS) 2019

3 - ONS Crime Survey for England and Wales (CSEW) 2019

CYBERCRIME IN NUMBERS

89% of companies rely on a technical solution

BUT 72% of breaches are via email

AND ONLY 29% of staff get cyber training[2]

1 – Cyber National Assessment 2019

2 – Cyber Security Breach Survey (CSBS) 2019

3 - ONS Crime Survey for England and Wales (CSEW) 2019

WWW.NCSC.GOV.UK

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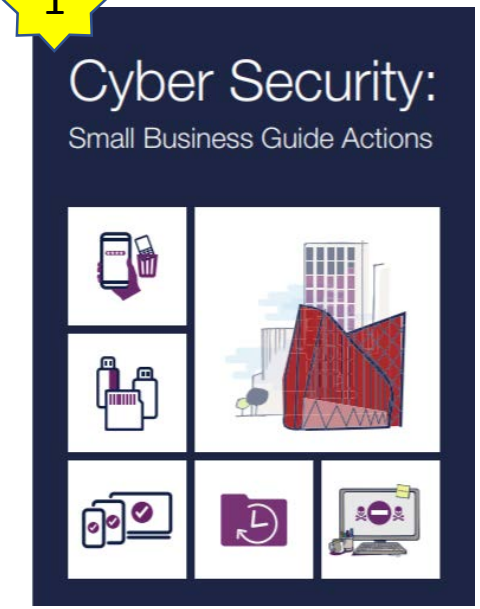

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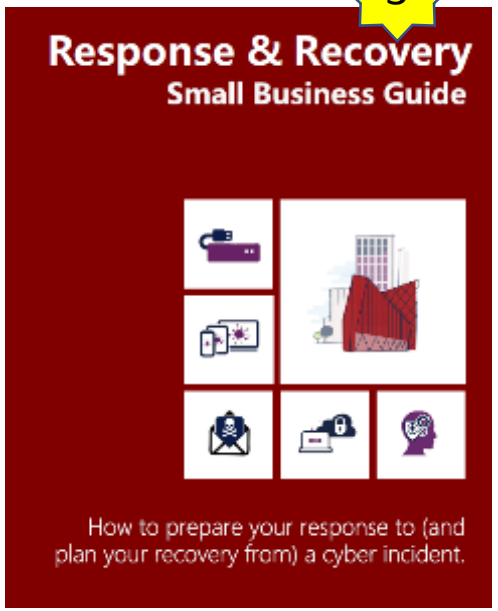

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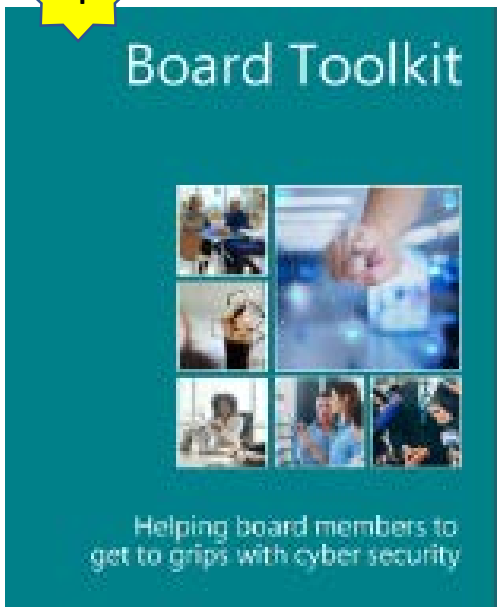

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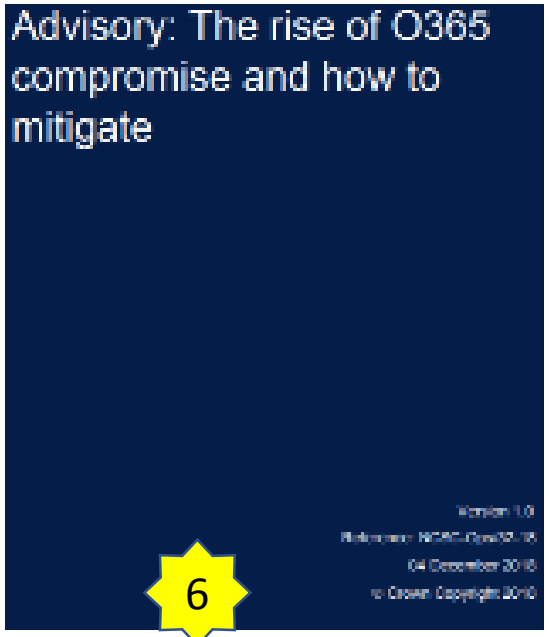

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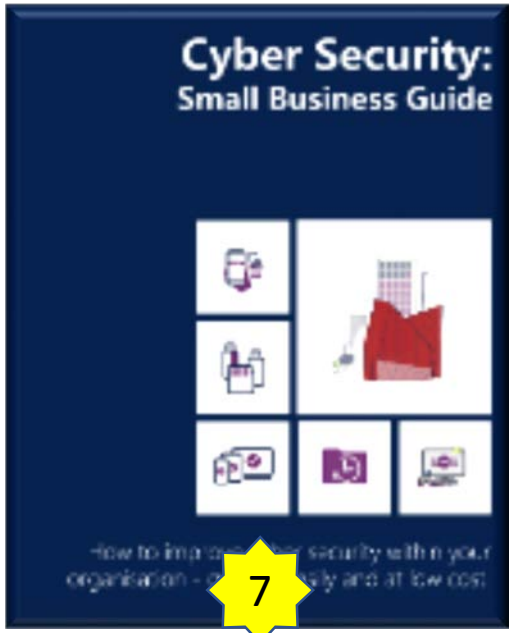

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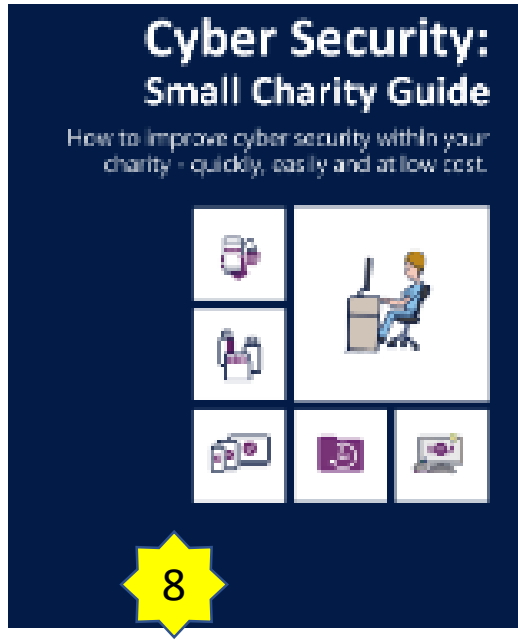


Cyber Essentials

- Helps you guard against the most common cyber threats & demonstrate your commitment to cyber security. Organisations should be Cyber Essentials accredited. Sign up www.cyberessentials.ncsc.gov.uk

Mail Check

- Free Platform for assessing email security compliance. It collects, processes & analyses DMARC reports from across the **public sector**

NCSC Exercise in a Box

- Free Service that helps you test your cyber maturity with testing and resilience plans

Web Check

- Free Service that helps you find & fix common vulnerabilities in UK **public sector websites**

Cyber Security Information Sharing Partnership (CISP)

- Joint industry & government initiative set up to exchange cyber threat information in a confidential & dynamic environment, increasing situational awareness & reducing the impact on UK business
- Once in CiSP join the maritime sector / modal specific nodes in order to interact & gain further insight

Utilise the Protective Domain Name System (PDNS)

- Free reliable internet accessible DNS service for the public sector that protects users from threats posed by known malicious malware

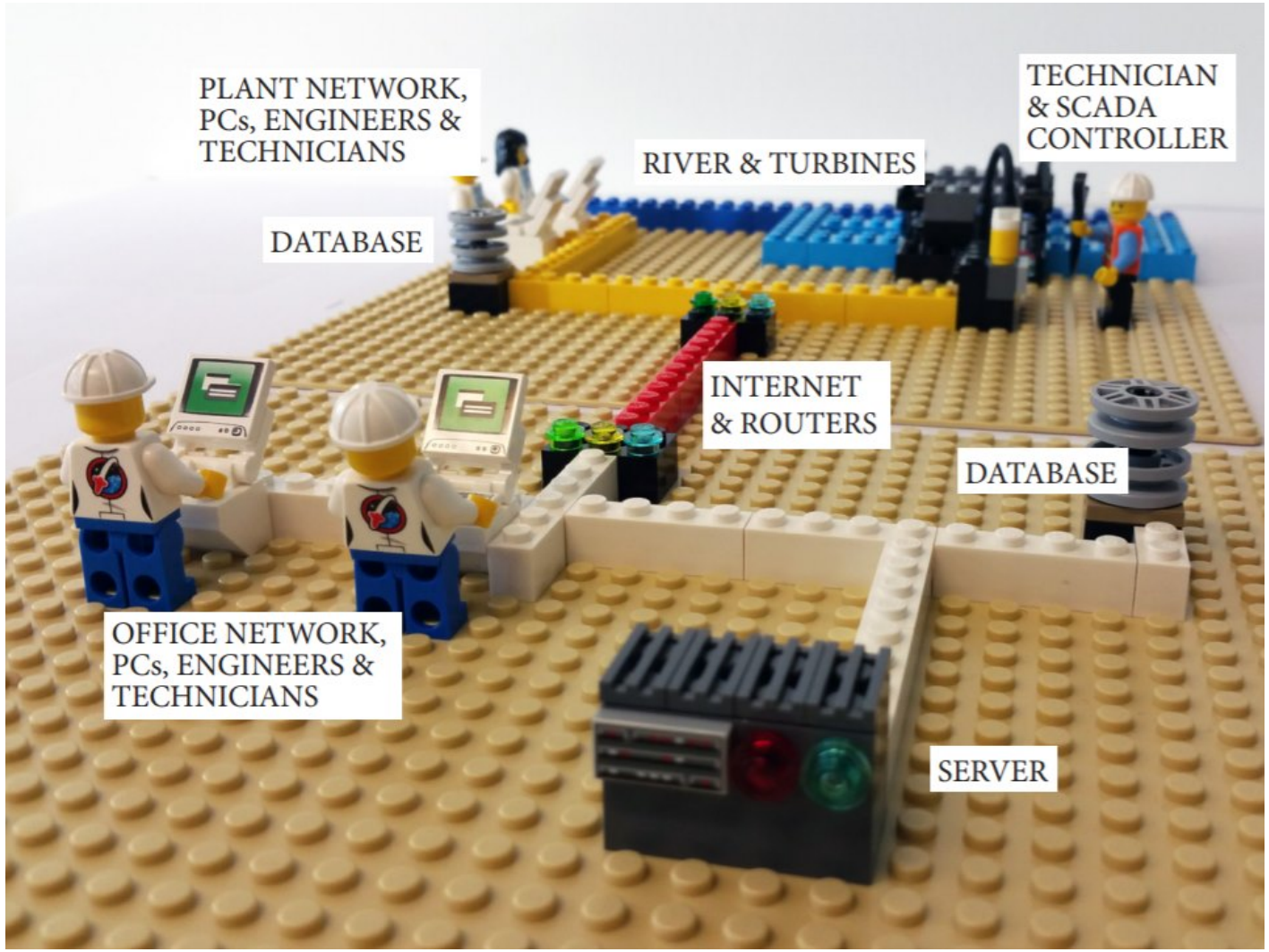
Register for Cert-UK Network Reporting Service (CNR)

- Free service that scans for network abuse events & vulnerable network services on an organisation's Internet-facing services

www.ncsc.gov.uk/section/products-services/active-cyber-defence

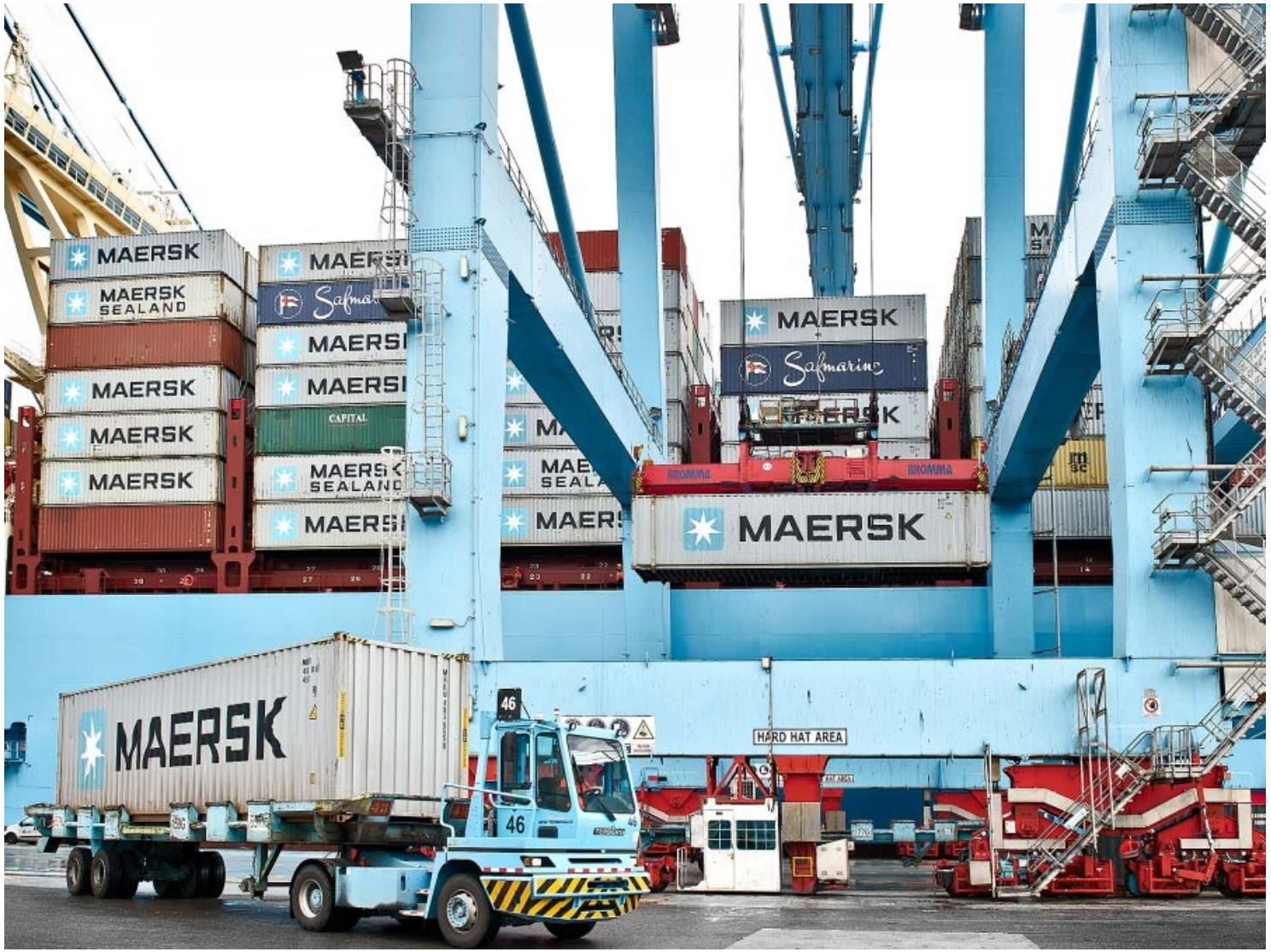
DECISIONS AND DISRUPTIONS

A lego based table top exercise to challenge organisations response to Cyber Security



https://sites.google.com/view/decisions-disruptions/

The Consequences



- NotPetya - Ransomware
- 15% worlds shipping
- Stopped 76 port operations
- Rotterdam gridlocked
- Relied on WhatsApp
- $200-300million cost
- Not the target!

PASSPHRASE NOT PASSWORD

The 25 worst passwords of 2018 …

666666	**123456789**	**Qwerty**	**Abc123**	**!@#$%^&;***
Donald	**12345678**	**Iloveyou**	**Fottball**	**Aa123456**
1234567	**12345**	**Princess**	**123123**	**Password1**
123456	**111111**	**Admin**	**Monkey**	**Qwerty123**
Password	**Sunshine**	**Welcome**	**654321**	**Charlie**

But how long does it take to crack these passwords?

QwErTy987123! CoffeeTinyFish CoffeeTinyFish#9

Don’t use any information that may be easily worked out from social media content
e.g. maiden name; date / birth place; pets; football teams, etc…

To add complexity, convert letters to numbers and add special characters and use THREE RANDOM WORDS

For example
To add complexity
Or

LONDONBEACHMUSIC
LO7DO7B3ACHMUSIC
3redhousemonkeys!

References

Guidance documents from the Department of Transport for the maritime sector

- Note - Ports and Port systems guidance is in the process of being revised
- https://www.gov.uk/government/publications/ports-and-port-systems-cyber-security-code-of-practice
- https://www.gov.uk/government/publications/ship-security-cyber-security-code-of-practice

Useful data management guidance for protecting sensitive data

- https://www.ncsc.gov.uk/collection/protecting-bulk-personal-data

All advice in this presentation is available on our website

- www.serocu.police.uk/staying-secure/

Get the latest reports from the National Cyber Security Centre

- Cyber Alerts and Advisories: www.ncsc.gov.uk/index/alerts-and-advisories
- Weekly Cyber Threat Report: www.ncsc.gov.uk/index/report

Thank you – Any questions?

Protect Team Email: cyberprotect@serocu.pnn.police.uk

To improve the products and services provided by Cyber Protect Officers, we welcome your feedback and ask that you complete a short survey.

To take you straight to this survey, please scan the adjacent smart code

Follow our social media for simple and practical advice on how to protect yourself from fraud and cybercrime

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