

Are people the problem?

{ The human aspects of information security

- ⌘ What factors are influencing people to not comply with information security/data protection best practice?
- ⌘ How can we promote positive behavioural change?
- ⌘ How can technological solutions best support change?



⌘ Esquire - March 2020:

“Whether the coronavirus pandemic lasts for two months or two years, the way that we live and work will be altered irrevocably”

⌘ However, has the pandemic fundamentally altered this issue?

The elephant in the room

- 1) **\$1.8 million** lost every minute to cybercrime
- 2) Security breaches cost companies approx. **£20 every minute**
- 3) Approx. **£1 million** is lost every hour to phishing attacks
- 4) **More than half** of businesses admit that employees are their biggest risk to their information security
- 5) 65% of data security incidents reported to ICO in 2018 resulted from 'incorrect disclosure of data', as opposed to 13% caused by malware, ransomware, phishing and brute force attacks
- 6) Two-thirds of all data breaches reported to ICO in 2019 resulted from 'human error'

Some numbers...

- & Cyber threats are very costly
- & Majority of threats come from human error
- & These problems cannot be tackled with more technology alone

What do those numbers tell us?

- ⌘ The changes to the world of work have increased the cyber attack surface exponentially for most organisations
- ⌘ The pandemic brought specific threats to the fore, and increased them
- ⌘ The speed and frequency of attacks is accelerating constantly

The problem is growing

HACKERS DON'T HACK TECH ANYMORE

THIS HOUSE IS BUILT WITH
UNBREAKABLE LOCKS, DOORS, WINDOWS
AND WALLS

HE RANG
THE DOORBELL,
AND I OPENED
THE DOOR

THEN HOW DID THE
CRIMINAL GET IN?



By Danny Pehar

THEY HACK PEOPLE

- 1) May 25th 2018 was the “finish line”
- 2) It's an additional – and unwanted – burden
- 3) Over-reliance on tech solutions
- 4) Lack of understanding
- 5) “It's not my job”
- 6) Lack of training / poor training

So why don't people comply?

People are the problem

BUT

They are also the solution

So where does this leave us?



How do we promote change?

- 1) Research has shown that making training personally relevant enhances its efficacy
- 2) Raise awareness and understanding
- 3) Understand the business needs

1) Make it personal

- 1) Cyber security threats are constantly evolving – policies need to adapt accordingly
- 2) One size does not necessarily fit all
- 3) No more “ivory towers”
- 4) Make it intelligible and applicable

2) Update policies and procedures

- 1) Only 11% of companies continuously train employees to recognise cyber threats. 52% of companies only train once per year
- 2) Training should be ongoing and evolving
- 3) Understand and employ approaches from behavioural science – “nudging”

3) Continuous training

- 1) Identify the key factors influencing your strategy
- 2) Learn from other organisations and disciplines
- 3) Iterate your approach – “fail fast” and adapt
- 4) Make it relevant and intelligible

4) A clear strategy is key

- 1) At a very fundamental level, you can make more progress towards long-term cyber security solutions if you take the time to understand the problems and their causes, rather than simply trying to solve them
- 2) Be flexible – it's not all about you
- 3) Try to say “Yes, if...” rather than “No”

5) Start with “Why?”

A network diagram composed of various technology icons connected by lines. The icons include a desktop computer, a satellite dish, a bar chart, a folder, a share symbol, a laptop, a cloud, a battery, gears, a clock, a Wi-Fi symbol, a smartphone, and a tablet. The lines connect these icons in a complex, web-like pattern, suggesting a network or system of interconnected technologies.

How can tech help us?

- 1) Horizon scan
- 2) Have a clearly articulated business need
- 3) Use tools that support behavioural change
- 4) “Data protection by design”

Focus on what tech is for

- ⌘ Staff can be the single most significant cyber security risk factor but also the key ally in achieving compliance
- ⌘ The solution is a “whole organisation” approach – not solely the remit of information security/data protection

In conclusion

Thank you

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