



Cyber Security: Protecting you and your data

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About KCS

Almshouse Association's trusted IT provider

25 year track record in keeping data safe

**Ethical Business Model to support charities
and Almshouse Association members with IT
at a discount**

Charity experts

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About the presenter

Dan Gregor

**Masters in Communications IT Law
Barrister and IT Director
25 years strategic IT experience
Support and systems expert
Cyber Security consultant
Keen marathon runner**



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Agenda

- **Techniques and approaches**
- **What a hacker is after - and why**
- **How to protect your organisation**



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Who would want to attack you?

- Criminals after money
- Post Covid huge increase in attacks
- Range from single criminal to trained team of 50 experienced hackers
- 50% of financial companies say they have fallen victim to a cyber attack
- NCT lost 15,085 user details to attack
- NHS ransomware attack
- Westminster network compromise...

Source: FT.com

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Who would want to attack you?

- Politically motivated hackers?
- Aiming to damage reputation or generate headlines
- Stakeholders with a grudge?

Why?

- Gain access to your PC
- ... by running a file or clicking a link

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The impact

- Could be a significant impact
- Disruption to services
- Reputational damage
- Compromise customer trust
- Financial loss to practice and customers
- Privacy and safety

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How it could happen...

- Employees are easy to find online
 - Google
 - Linked In
 - Facebook
 - Twitter
 - Blogs




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How it could happen...

- Employees are easy to find online
 - Google
 - Linked In
 - Facebook
 - Twitter
 - Blogs
- Linked In and Google results









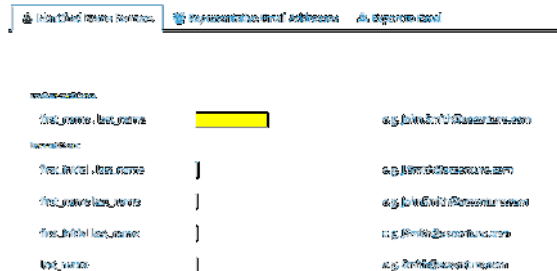
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


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How it could happen...



Obtaining email addresses Email-format.com






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How it could happen...

- Personal employee profiles
- Don't accept friend requests from people you don't know
- Staff should consider policy on personal sites

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None IT (offline) approaches



- Trade waste
- Befriending staff
- Physical access









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How it could happen...

- Obtaining your password
“Brute Force”
- Guessing (!) – pets, partners...

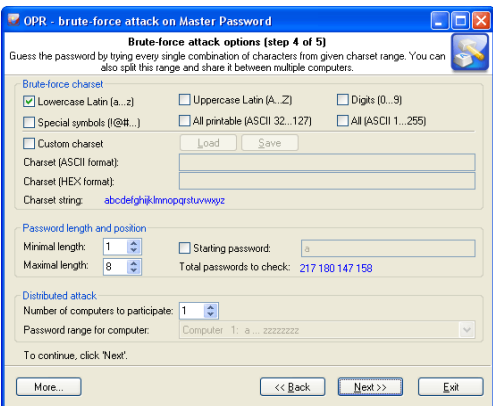







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How it could happen...



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Password safety

A six character password can be cracked in **one second***

Use a **strong** and **separate** password for your email account.
A good way to create a password is to use three random words and numbers, which are memorable to you, but not easy for other people to guess.

* According to results from <https://password.kaspersky.com/> and <https://howmanyofyourpasswords.com/>

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How it could happen...

- Coffee shop or hotel Wi-Fi
- Open window / memory stick
- Unlocked phones
- Out of office and “checking in”
- Shoulder surfing
- Over the phone
- Redirected payment requests
- Phishing....

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How it could happen...

Dear Customer,



We noticed some unusual activity on your HSBC account. In order to protect you we have temporarily blocked access to your online banking.

How can you unblock your account?
The fastest away to unlock your HSBC account is to verify your account here www.lookslikeabank.com

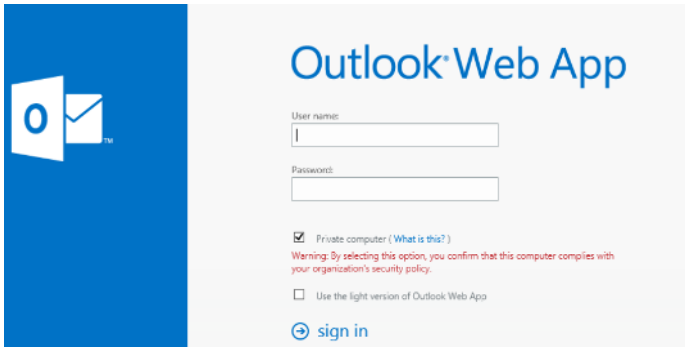
Thanks
The HSBC team



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How it could happen...



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DO YOU REALLY KNOW... ..WHERE THAT EMAIL CAME FROM?

23% Of people that receive phishing emails will open them .	95,556 The number of phishing reports made to Action Fraud between Nov 2014 and October 2015.	82s The time it takes for cyber criminals to ensnare their first victim in a phishing campaign.
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Source: Action Fraud, Police UK

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Spotting phishing

- From field
- Attachments
- Wording
- Spelling and grammar!

... on the internet
if it's free you're the product...
internet dating example....



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Take a proactive approach

- Staff awareness
- System monitoring
- Strategic planning
- System Testing – PEN tests



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Do's and don'ts...

- DO use **dual factor authentication**
- DO call IT if you are unsure
- DO call IT if you have clicked a link
- DELETE if unsure; don't take risks
- DON'T forward dodgy stuff
- **Use NCSC: report@phishing.gov.uk**
- DON'T use personal email accounts
- Rather ask if you are unsure
- The most important thing: tell IT!

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We are here to help

Thanks and questions

www.kcsltd.co.uk

0845 0552073



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