Cyber Security Fundamentals

While waiting for the session to start, please: 1.go to kahoot.it & enter the PIN 659 2370 2.go to menti.com & enter the code 2720 8690



Acknowledgment of Country

AUSCERT through the University of Queensland (UQ) acknowledges the Traditional Owners and their custodianship of the lands on which we meet.

We pay our respects to their Ancestors and their descendants, who continue cultural and spiritual connections to Country.

We recognise their valuable contributions to Australian and global society.





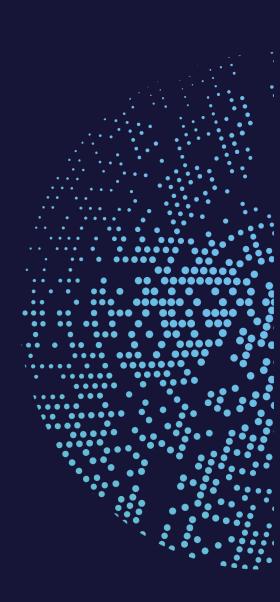


THE UNIVERSITY

OUEENSLAND

A little about me – Mark Carey-Smith



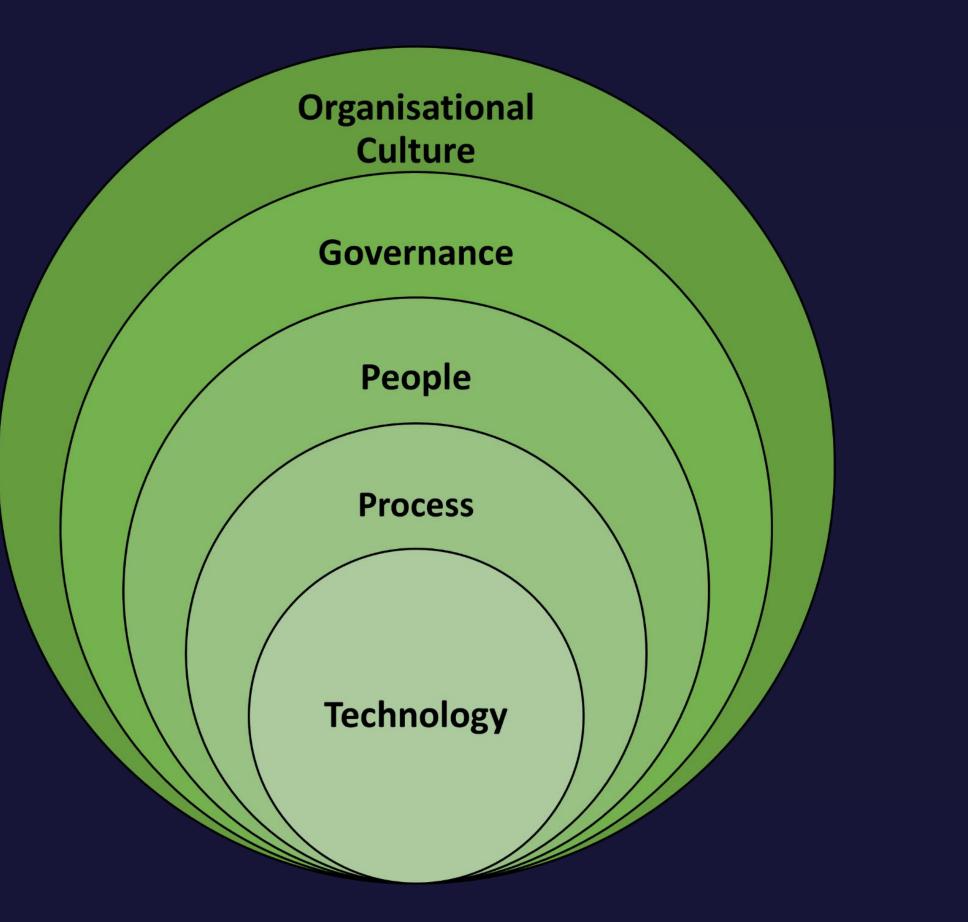


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What will you gain from today's information session?





Expectations

I will do my best to be entertaining and informative

I ask that you try hard to be curious, contribute your point of view and respect the opinions of others

If you have any questions please ask them at any time

Who is responsible for cyber security?

Let's do a quiz!

Technology can do amazing things but it can't do everything, the last line of defence is often you

Back to the quiz





Cyber hygiene – Situational awareness







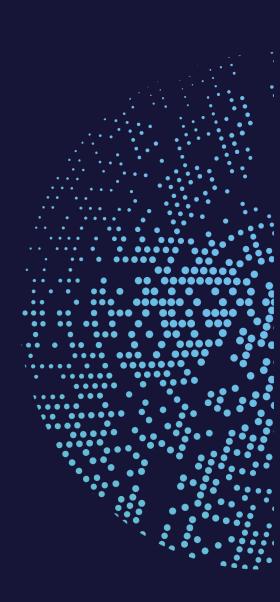
Cyber hygiene – Social Engineering

Back to the quiz!

Attackers are increasingly targeting people, rather than technology.

Phishing Vishing? Smishing? Quishing? Dishing?





Cyber hygiene -

10:10





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Text Message Thursday 3:12 am

AusPost: Tried to deliver on 17/5/2023; visit <u>www.auspost-</u> <u>status.com</u> for parcel tracking and rescheduling.





Cyber hygiene – Social Engineering

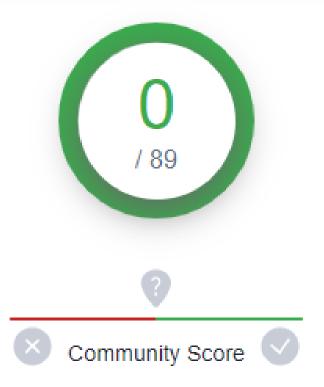
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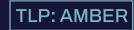
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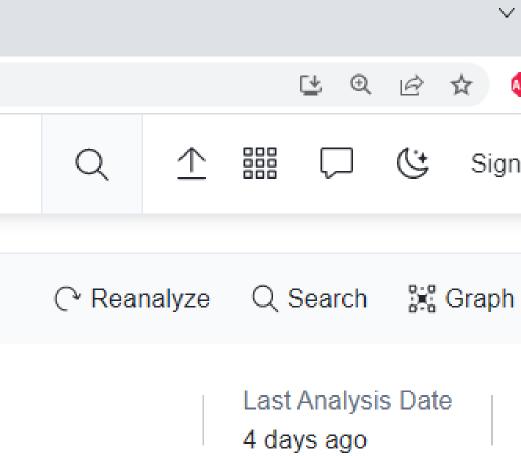
http://auspost-status.com/



✓ No security vendors flagged this URL as malicious

http://auspost-status.com/ auspost-status.com





Cyber hygiene – Social Engineering – Attacker Techniques

D.A.N.C.E

Distraction - Attackers pull your focus in one direction so you don't notice or think about the thing they want you to miss Appearance - Attackers 'blend in' and appear to be normal and trustworthy - and scam emails look legitimate Need - The attack will make you want something and then provide the solution from a position of power or authority Context - Attackers prefer places/situations/times of day when you are busy or stressed, and your guard is down Emotion - Attackers rely on creating an emotional state such as panic or gratitude in their victim because emotions override rational thinking





Cyber hygiene – Social Engineering

Back to the quiz!

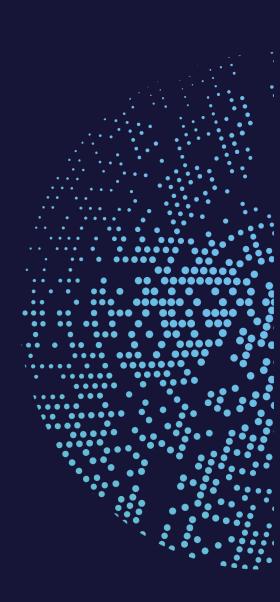
There are some great resources from <u>Scamwatch</u> and from <u>IDCare.org</u>

Phishing comes via any messaging app

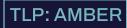
If in doubt, don't open it, then report it

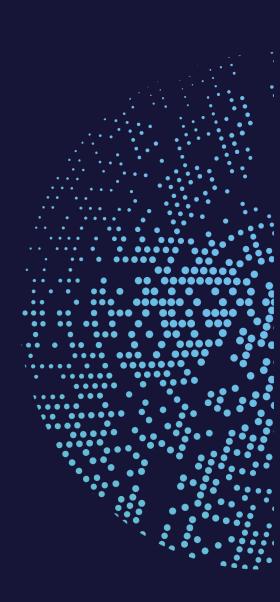
If you lose a device, report it





Let's watch a video: https://www.youtube.com/watch?v=x9LlqdUV09M

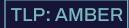


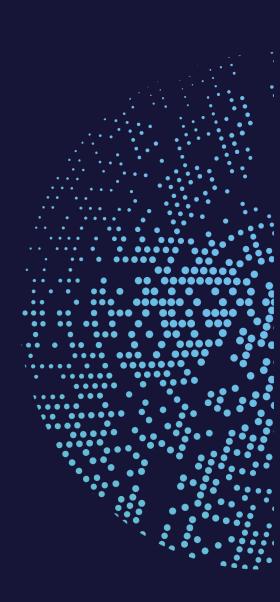


What do you think are the most common passwords?

Now let's have a look at <u>a common password list</u>

The havelbeenpwned web site is useful





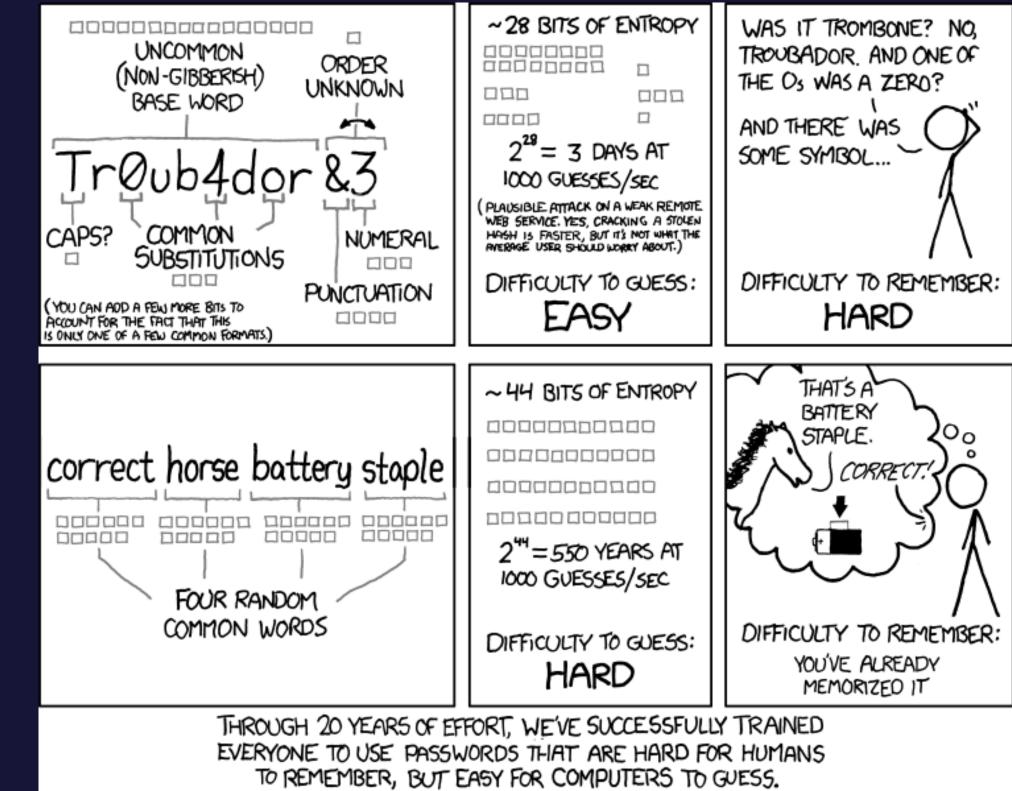
Habits and Switching Cost

Habits

Switching cost







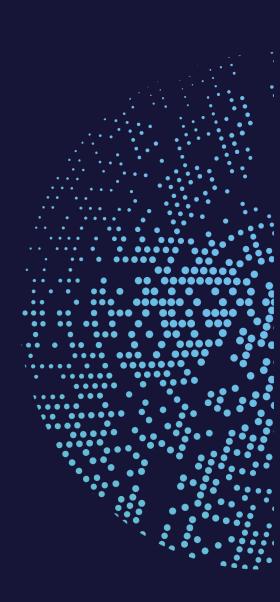




Reducing the number of passwords to remember makes life easier, but...

What's an unsafe way to do that?

Back to the quiz



A safe and convenient solution to better passwords is to use a password manager

Used on computers and mobile devices

iOS devices have Keychain

TLP: AMBER

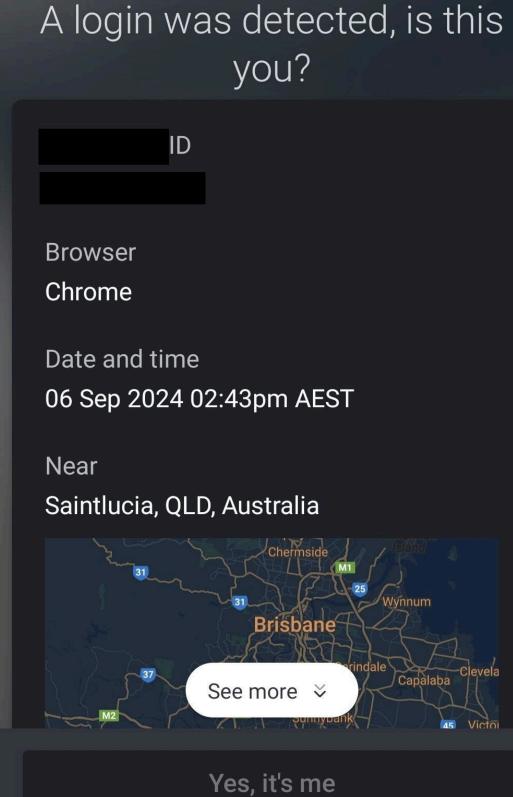




Cyber hygiene – Passwords – 2FA or MFA

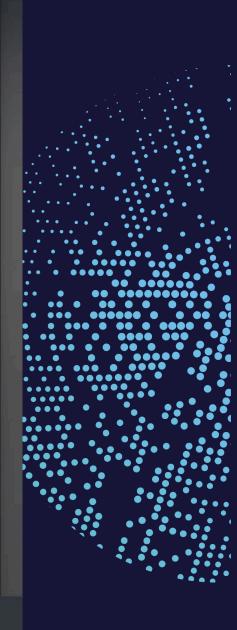
MFA is not a panacea

Use caution when responding to prompts





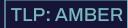
No, it's not me

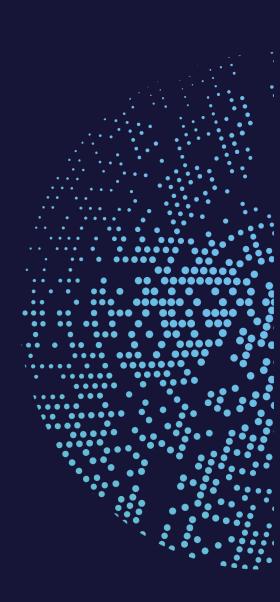


Personal privacy - managing your digital footprint

Let's watch a video https://www.youtube.com/watch?v=yrjT8m0hcKU

What's going on here, why are the customers so surprised?

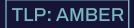


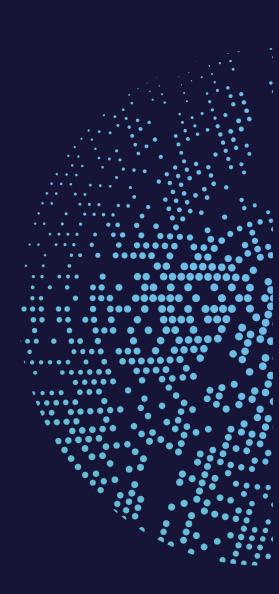


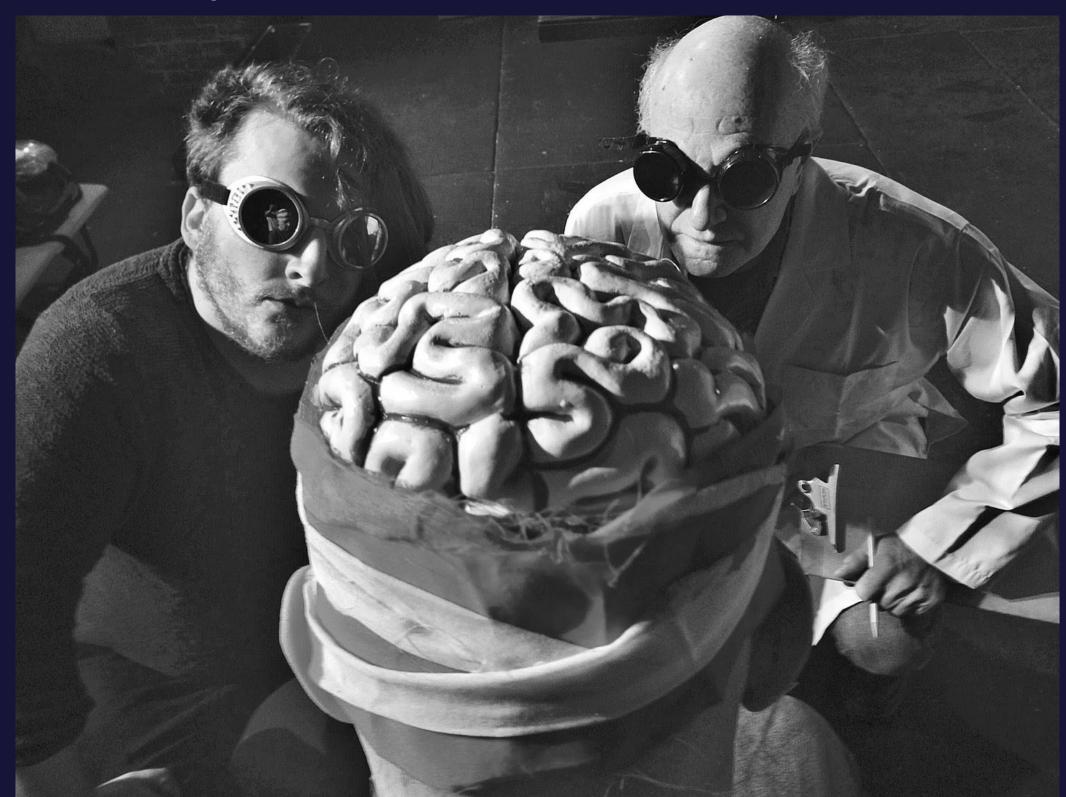
Personal privacy - managing your digital footprint

Personal privacy is about protecting the information that others collect about you

We can't stop it but we can reduce it: Assume everything posted is public Consider if you need to tell the truth Vote with your feet Be very careful with apps Review your apps every few months







TLP: AMBER



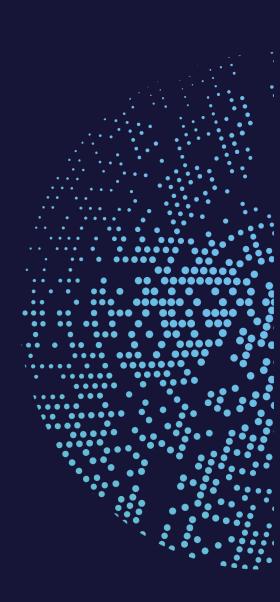
Let's watch a video https://www.youtube.com/watch?v=vJG698U2Mvo

The video is an example of selective attention

Busy people notice fewer red flags

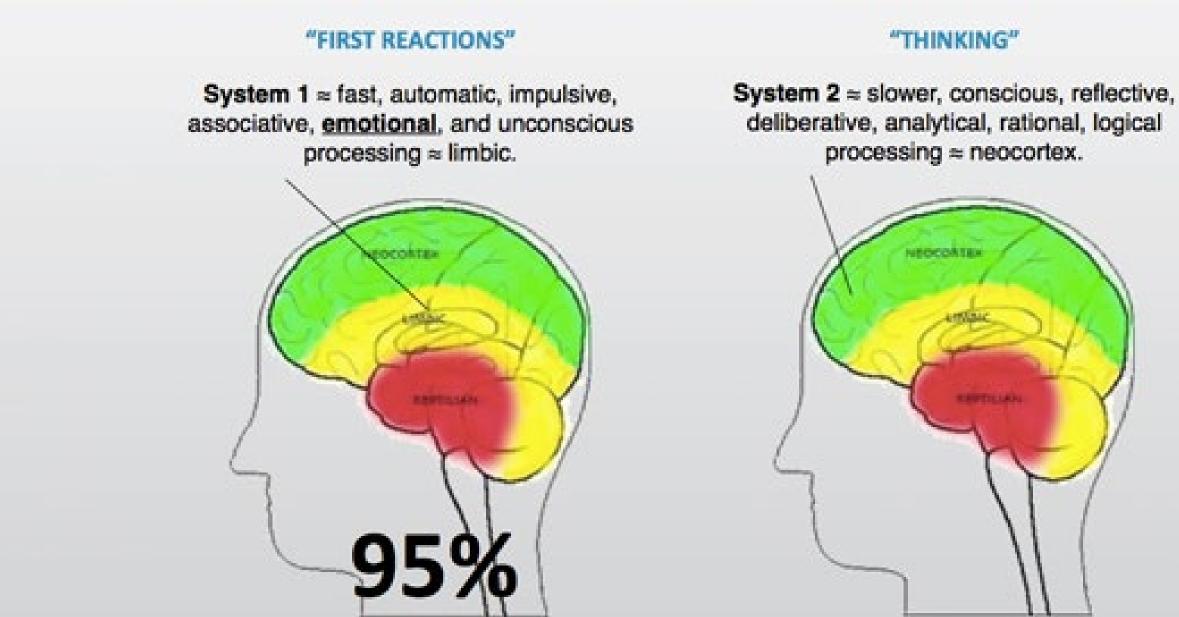
Slow down and stay safe

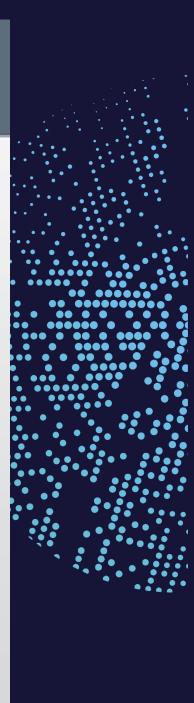




TLP: AMB

SYSTEM 1 AND SYSTEM 2 PROCESSING

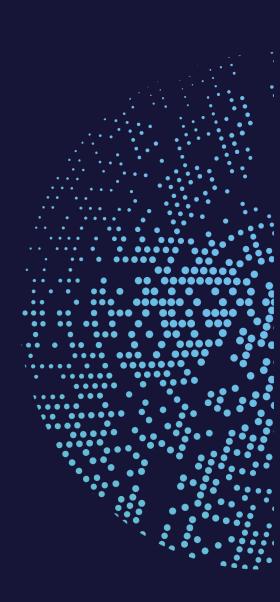




System 1 (automatic) thinking keeps us alive

Let's go back to the quiz!















Small group exercise - OSINT and phishing

You are an attacker

You plan to use OSINT to find actionable information about your target; the CFO of UQ

You will attack them via phishing





Small group exercise - OSINT and phishing

Your objectives:

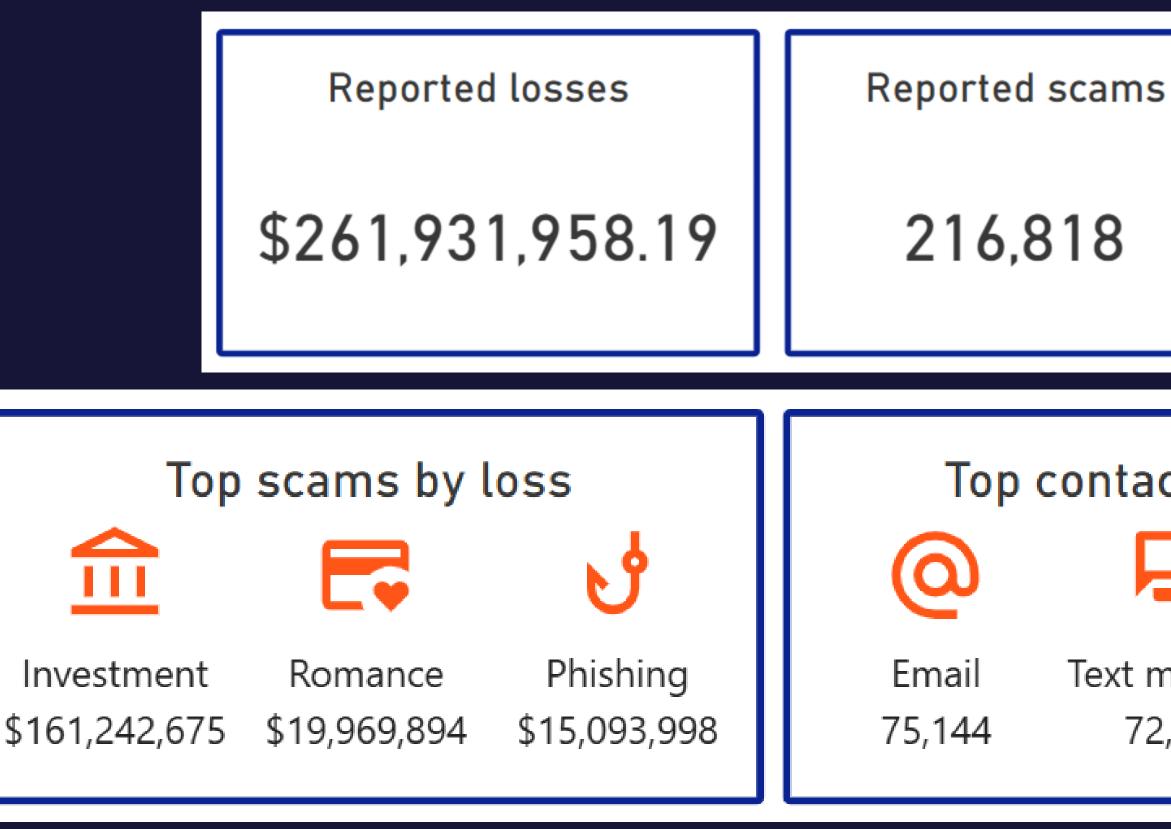
- 1. Determine what OSINT is available on your CFO.
- 2. Decide what OSINT will be useful for you as an attacker.
- 3. Create ideas for at least 3 different phishing lures.

You have 15 minutes, then we'll debrief as one group





Scam stats - Scamwatch





Top contact methodsImage<tr

Business Email Compromise - BEC

BEC is a rapidly growing cyber crime

BEC scams target communications

Payment processes are a common target



The recipient clicks on the link and is directed to a phishing website.

The recipient of the targeted email enters his or her credentials into the website.

The cybercriminal uses those credentials to set a forwarding rule to send copies of all emails to his own inbox.

The cybercriminal monitors the inbox to obtain information about invoices, payments, and other financial details.

When the opportunity arises, the cybercriminal uses his intel to send a fake invoice to the organization's customer, informing the customer of new banking details.



Cyber hygiene – What does HTTPS actually mean?

А ://auscert.org.au

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Allies in **Cyber Security**



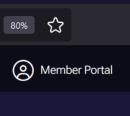
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Incident Support Vulnerability Management



Threat Intelligence



Become a member



28 JUNE 2024, 7:30AM

Media Release

Man charged over creation of 'evil twin' free WiFi networks to access personal data

Editor's note: Footage of the man's arrest and on camera grabs by AFP Det-Insp Coleman available via Hightail

The AFP has charged a West Australian man who allegedly established fake free WiFi access points, which mimicked legitimate networks, to capture personal data from unsuspecting victims who mistakenly connected to them.

The man, 42, is expected to appear in Perth Magistrates Court today (28 June, 2024) to face nine charges for alleged cybercrime offences.





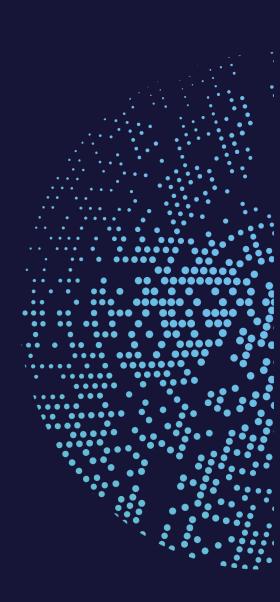
Cyber Hygiene on the Move

Public WiFi is not safe (continued)

Use your phone as a hotspot instead

Set a PIN, or equivalent, on your phone





Cyber Hygiene at Home

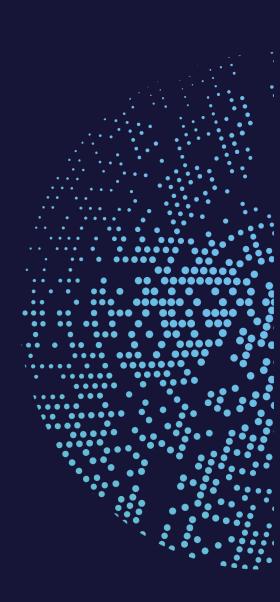
Change default passwords

Guests use the guest WiFi

Kids don't use your work device

There's smart and there's "smart"







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