

# Technology is Amazing

















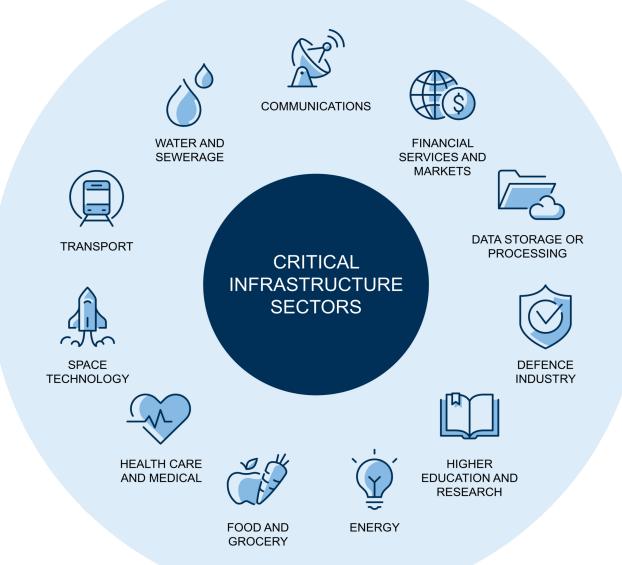






#### Security Legislation Amendment (Critical Infrastructure) Act 2021 (SOCI Bill)

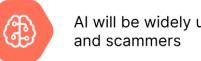




## 2024 Cybersecurity Predictions







Al will be widely used by hackers



Hackers will find new ways to bypass biometric authentication



Leaked nudes will be trending on the dark web



The number of amateur hackers will grow



Sales of stolen customer data will rise

#### Why Small Businesses are a Target\_



- 1. Limited Cybersecurity Resources: Small businesses often lack the budget and resources to invest in robust cybersecurity measures, making them an easier target for cybercriminals than larger organisations.
- 2. Valuable Data: Despite their size, small businesses hold valuable data such as customer information, payment details, and proprietary business information that can be lucrative for cybercriminals.
- 3. Less Awareness and Training: Employees in small businesses may not receive adequate training on cybersecurity practices, leading to vulnerabilities such as falling for phishing scams or using weak passwords.
- **4. Third-Party Vulnerabilities**: Small businesses often work with larger companies and can be targeted as a way to gain access to more extensive networks and sensitive information through these connections.
- 5. Underestimating the Threat: Many small business owners believe they are too small to be targeted, leading to complacency and insufficient protective measures, which cybercriminals exploit.





- 1. email compromise
- 2. business email compromise fraud
- 3. online banking fraud.





The average self-reported **cost of cybercrime** to **businesses increased** by **14% per cent**.

- \$46,000 for small business
- \$97,200 for medium business
- \$71,600 for large business



# What is the number 1 way hackers get into businesses?







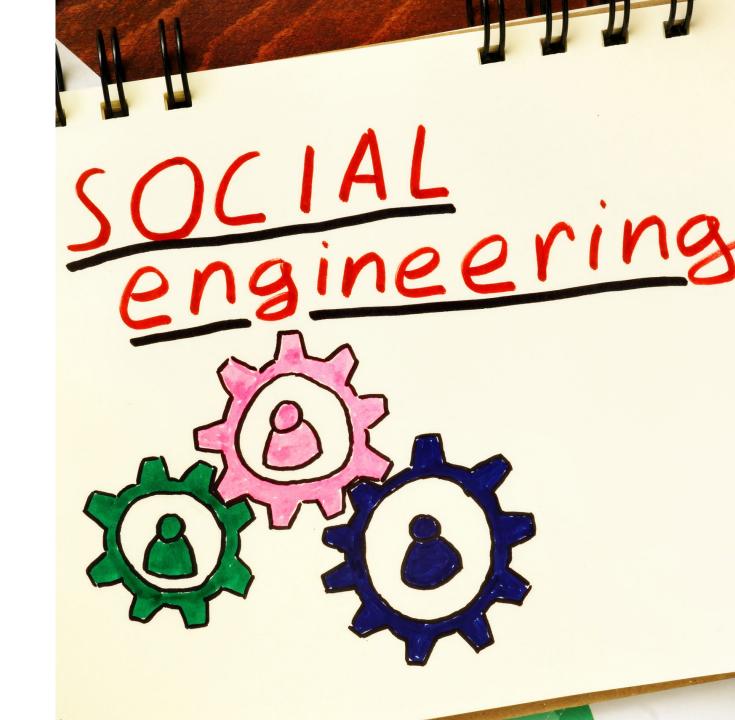
According to a rscheearch at Cmabrigde Uinervtisy, it deosn't mttaer in waht oredr the Itteers in a wrod are, the olny iprmoetnt tihng is taht the frist and Isat Itteer be at the rghit pclae. The rset can be a toatl mses and you can sitll raed it wouthit porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey Iteter by istlef, but the wrod as a wlohe.

## Social Engineering

Social engineering involves the manipulation of individuals into performing actions or releasing confidential information for the purpose of information gathering, fraud, and system access.



- Fear
- Greed
- Curiosity
- Helpfulness
- Urgency







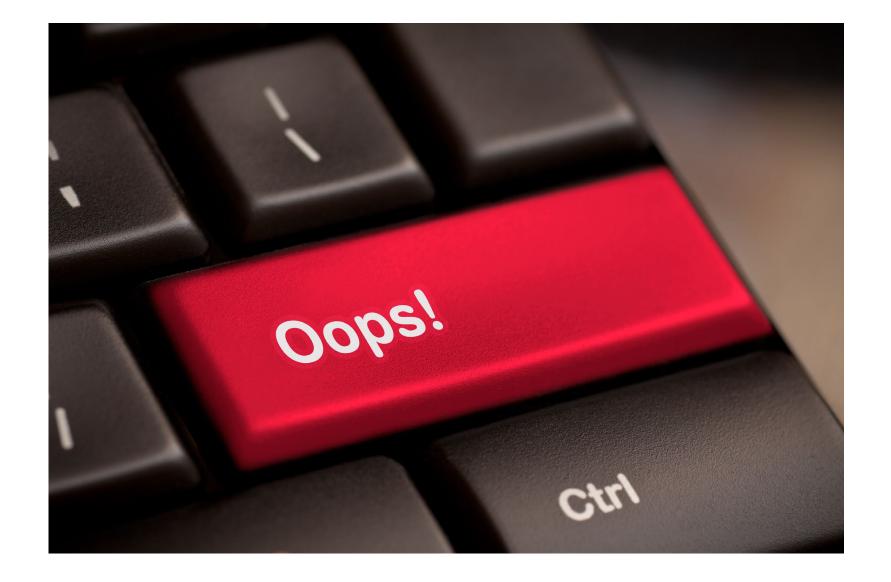




And hackers use this to their advantage



## And before you know it...







# How to spot a Phish

## Learn how to spot a Phishing Email

Trigger	Check	
A sense of emotion	Look for 'urgency' in request	
An unusual request	Confirm request with sender	
Context relevant event	"Was I expecting this email?"	
Poor template or signature block	Email reflect normal behaviour?	
Unknown sender domain	Confirm identity	
Poor grammar	Be detail oriented	
Unusual or obscure link	Hover over links	
http:// vs https:// link		



CThree questions to ask when opening emails:

- 1. Do I know the sender?
- 2. What type of language are they using?
- 3. What are they asking me to do?

The red flags

From: Microsoft office365 Team [mailto:cyh11241@lausd.net]

Sent: Monday, September 25, 2017 1:39 PM

To:

Subject: Your Mailbox Will Shutdown Verify Your Account



Detected spam messages from your <EMAIL APPEARED HERE> account will be blocked.

If you do not verify your mailbox, we will be force to block your account. If you want to continue using your email account please verify.

Verify Now

Microsoft Security Assistant

Microsoft office365 Team! ©2017 All Rights Reserved



#### [EXTERNAL] Your DHL package is in transit but additional payment is needed



i If there are problems with how this message is displayed, click here to view it in a web browser.



Dear Customer,

Your package is in transit, but additional payment is needed to receive your package.

Please pay \$1.99 in additional shipping costs. This payment must be made within the following 24 hours.

Once the payment is made, you will receive your package as soon as possible.

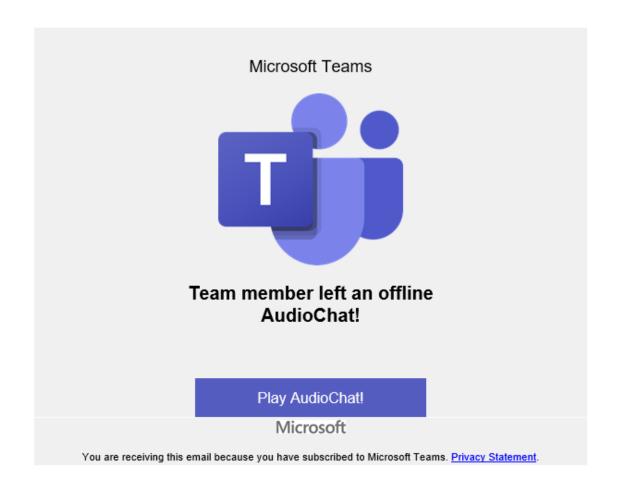
#### CLICK HERE TO REVIEW

Thank you, DHL EXPRESS Billing Team

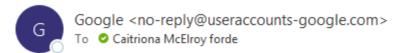
#### [EXTERNAL] Chat Message in Teams







#### [EXTERNAL] Critical security alert







Caitriona McElroy forde



#### Sign-in attempt was blocked

Caitriona.Forde@v

Someone just used your password to try to sign in to your account from a non-Google app. Google blocked them, but you should check what happened. Review your account activity to make sure no one else has access.

CHECK YOUR ACTIVITY

You received this email to let you know about important changes to your Google Account and services.

Google LLC, 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA 1540560208000000



#### New Billing Details - URGENT!!!



Hi Jane,

See attached our new billing details.

Please send payment for your latest invoice (attached) ASAP to confirm you have received this email.

Kind regards,

John Smith

Accounts Manager

# 🕝 | Instagram

We've had a lot of complaints about copyright infringement. Some content in your account violates copyrights. Instagram will delete infringing accounts shortly. If you do not want your account to be deleted and your account does not violate copyrights, you can let us know.

#### **Appeal**

from Meta

From CommBank

Subject Your CommBank is temporarily locked

9:39 am

To Undisclosed recipients:;☆



Dear User,

This is to notify you of the error(s) found on your account details

Please confirm there is no change in your profile details using our website below

http://www.commbank.com.au

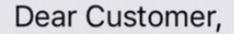
Note: Failure to confirm details may lead to access locked out.

Regards,

CommBank.

#### Smishing

We were unable to deliver your package - let us know, @ if you have already received @ it <a href="http://">http://</a> www.michaelleo.cn/b/df/? w8r.dk&5L3-BT726



Your AppleID is due to expire Today, Please tap <a href="http://bit.do/">http://bit.do/</a> cRqb6 to update and prevent loss of services and data.

Apple smsSTOPto43420

Shipment tracking link is already available, check it now! <a href="http://">http://</a> spdzzc.com/b/rj/?tlbes3143307

Your package is being delivered to you. Kindly confirm the outstanding payment of (11,99 AUD) using the following link:

https://hyp.ae/qpEcC





# Data Breaches

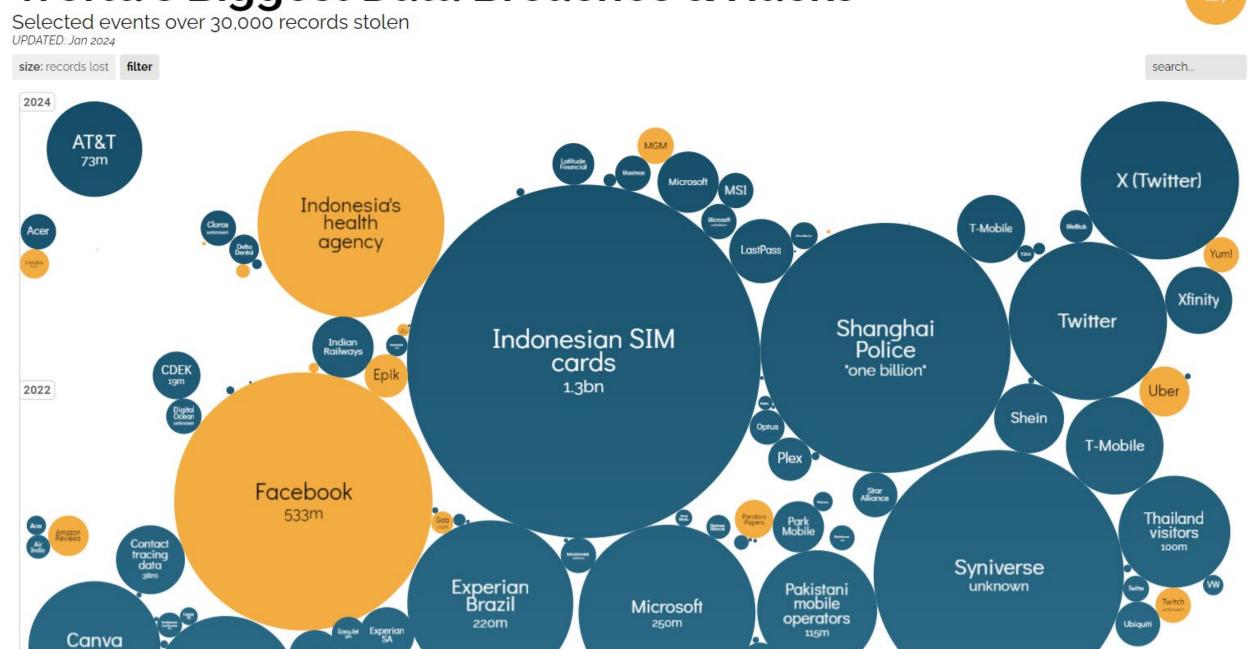
## World's Biggest Data Breaches & Hacks

139m

Dubsmash

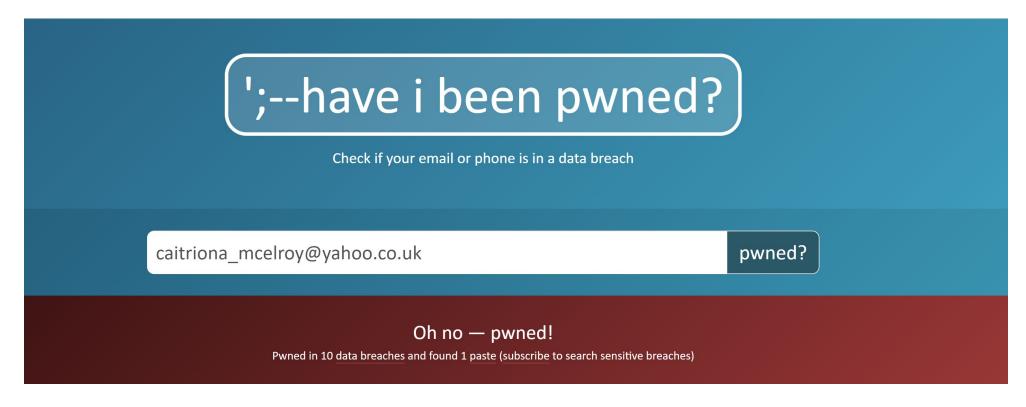
2020

interesting story





# Have you become a victim?



https://haveibeenpwned.com



# Passwords V's Passphrase



Monday2020?

Monday2020?

Password2021!

Password2021!

W3sternAus?21

W3lcome2020#

W3lcome2020#



Protecting yourself\_



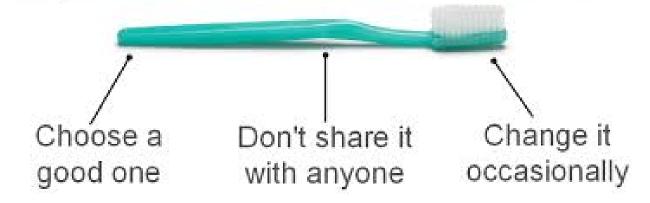
# Why length V's Complexity?

Password/Passphrase	Brute Force Attack	Dictionary Attack
password123	Instantly	Instantly
Spaghetti95!	48 hrs	30 mins
5paghetti95!	24 hrs	1 hrs
A&d8j+1	2.5 hrs	2.5 hrs
I don't like pineapple on my pizza	1 Year	40 days

## The top 10 most common passwords:

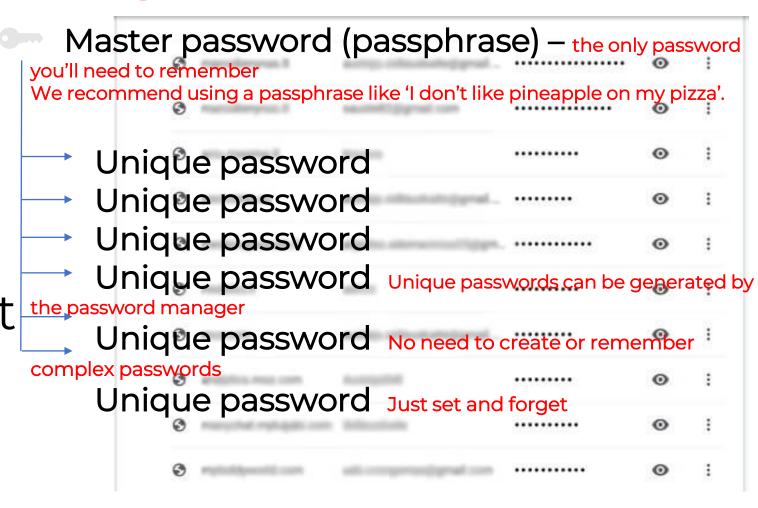
- 1.123456111111
- 2.123123
- 3.12345
- 4.1234567890
- 5.qwerty
- 6.123456789
- 7.picture1
- 8.password
- 9.12345678
- 10.senha

## A password is like a toothbrush



## Password Management

Inyour lives, we teasea with a media in a line and the line a shaedoin yssera bredikeethis may steery cooper versities ont, it r som convergence of the converg commerce all your saved passwords.





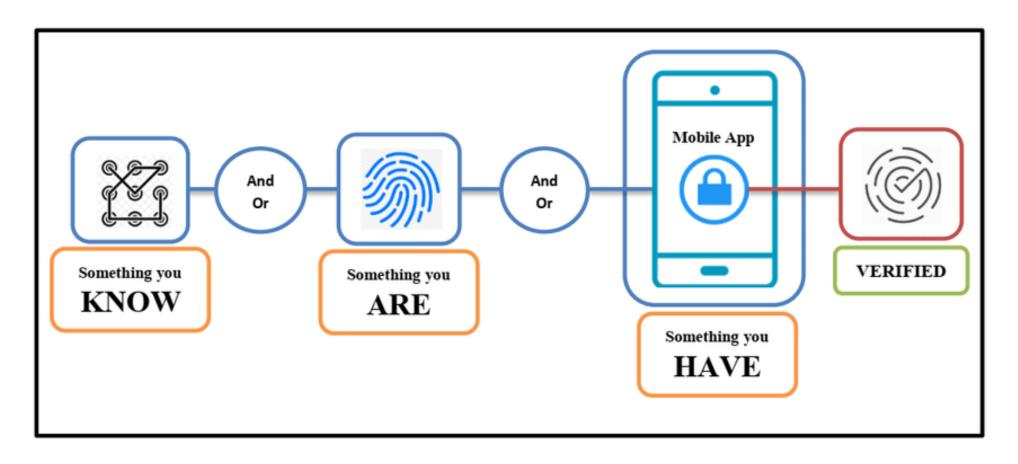
"Multi-Factor Authentication Can Prevent 90% of Attacks"





# caIT

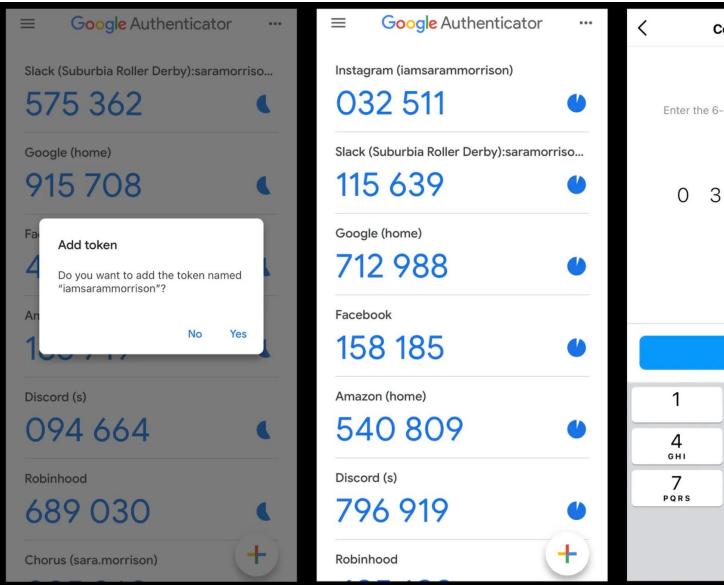
### Multi-factor means using a combination of the following:

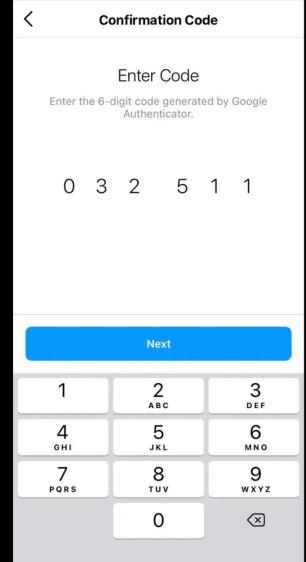


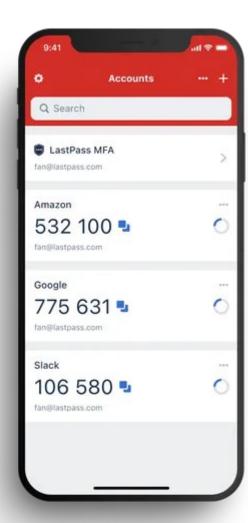
## Set it up for:

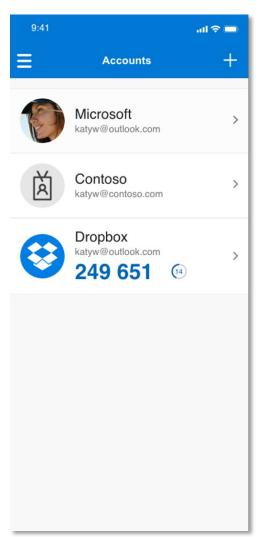
- Social media accounts
- Online banking
- Email accounts & mailboxes– Office 365
- Online databases
- Accounting Software
- CRM/Customer Database
- Domain name and hosting accounts
- Any online platform you save data

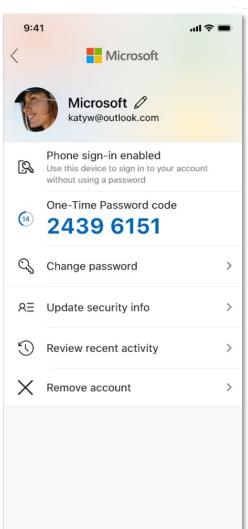
















## Case Studies





## Case Study 1 LinkedIn

- Social Engineering Convincing email pretending to be from event organisers
- Phishing Email with link to click
- Ransomware



## Case Study 2 Real Estate Company

- Phishing Email for credential harvesting (Microsoft 365)
- Social Engineering Convincing the buyer they were speaking with the sales agent
- Business Email Compromise Targeting companies who deal with large financial transactions and trust accounts



## **Case Study 3 Not for Profit**

- Business Email Compromise CEO mailbox compromised while overseas.
- Sent email from CEO to finance team to pay urgent invoice of \$25K



## What to do if you fall victim?\_

## Actions to take

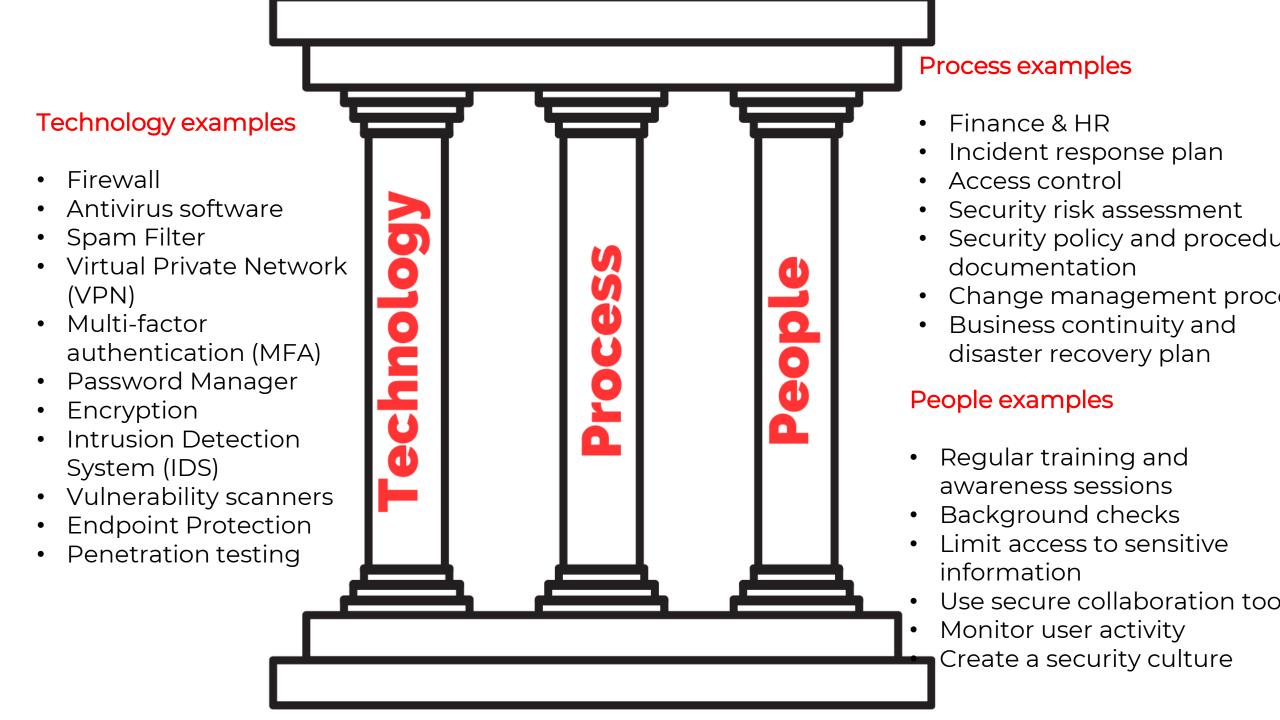
- Turn off your computer and disconnect from Internet/Network
- Get professional help
- Change all passwords
- Inform bank
- Run virus scans
- Inform authorities





## Main takeaways...

- Don't click links or open attachments in emails that look suspicious
- Password hygiene is essential Implement a password manager
- Multi-factor Authentication on everything
- Backup your important data (Crown Jewels)
- Regular software updates on all devices
- Train your team



## Leaving thought...



1 in 4





\*Odd's of you having a car accident

\*Odd's of a cyber attack