HotDoc | CPD WEBINAR

Cybersecurity in General Practice: Explanations & Mitigation Strategies

HOSTED BY

Henry McLaughlin

GREEN UMBRELLA TECHNOLOGY

aapm
Australian Association of Practice Management
AAPM Approved
2022
5 Points

WED 4 MAY

12:30pm AEST

In the spirit of reconciliation, HotDoc acknowledges the Traditional Custodians of country throughout Australia and their connections to land, sea and community.

We pay our respect to their elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

GREEN
UMBRELLA
TECHNOLOGY

Healthcare ICT Specialists

www.greenumbrella.com.au

IMPROVING TECHNOLOGY IN GENERAL PRACTICE

2022 CYBERSECURITY EDUCATION

GREEN UMBRELLA TECHNOLOGY

Cyber Security

Business Continuity Disaster Recovery

- Cyber security hardens against cyber attacks
- Business continuity and disaster recovery maximises capacity to recover from cyber attacks.

GREEN UMBRELLA TECHNOLOGY

CYBER SECURITY,
IN GENERAL PRACTICE

Cyber Security

GREEN
UMBRELLA
TECHNOLOGY

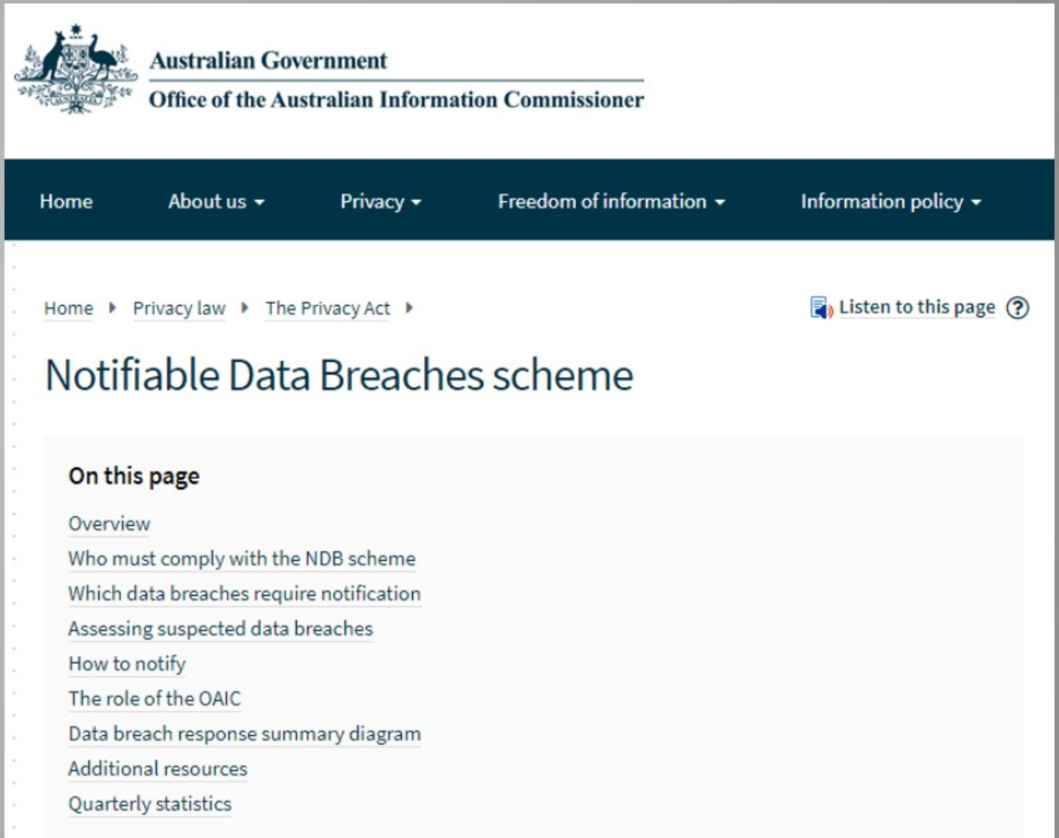
CYBER SECURITY EXPLAINED

- Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks. These cyberattacks are usually aimed at accessing, changing, or destroying sensitive information; extorting money from users; or interrupting normal business processes.
- Implementing effective cybersecurity measures is particularly challenging today because there are more devices than people, and attackers are becoming more innovative.

GREEN UMBRELLA TECHNOLOGY

LEGISLATION: NOTIFIABLE DATA BREACHES

Feb 2018 - Privacy Amendment (Notifiable Data Breaches) Act 2017



Australian Government
Office of the Australian Information Commissioner

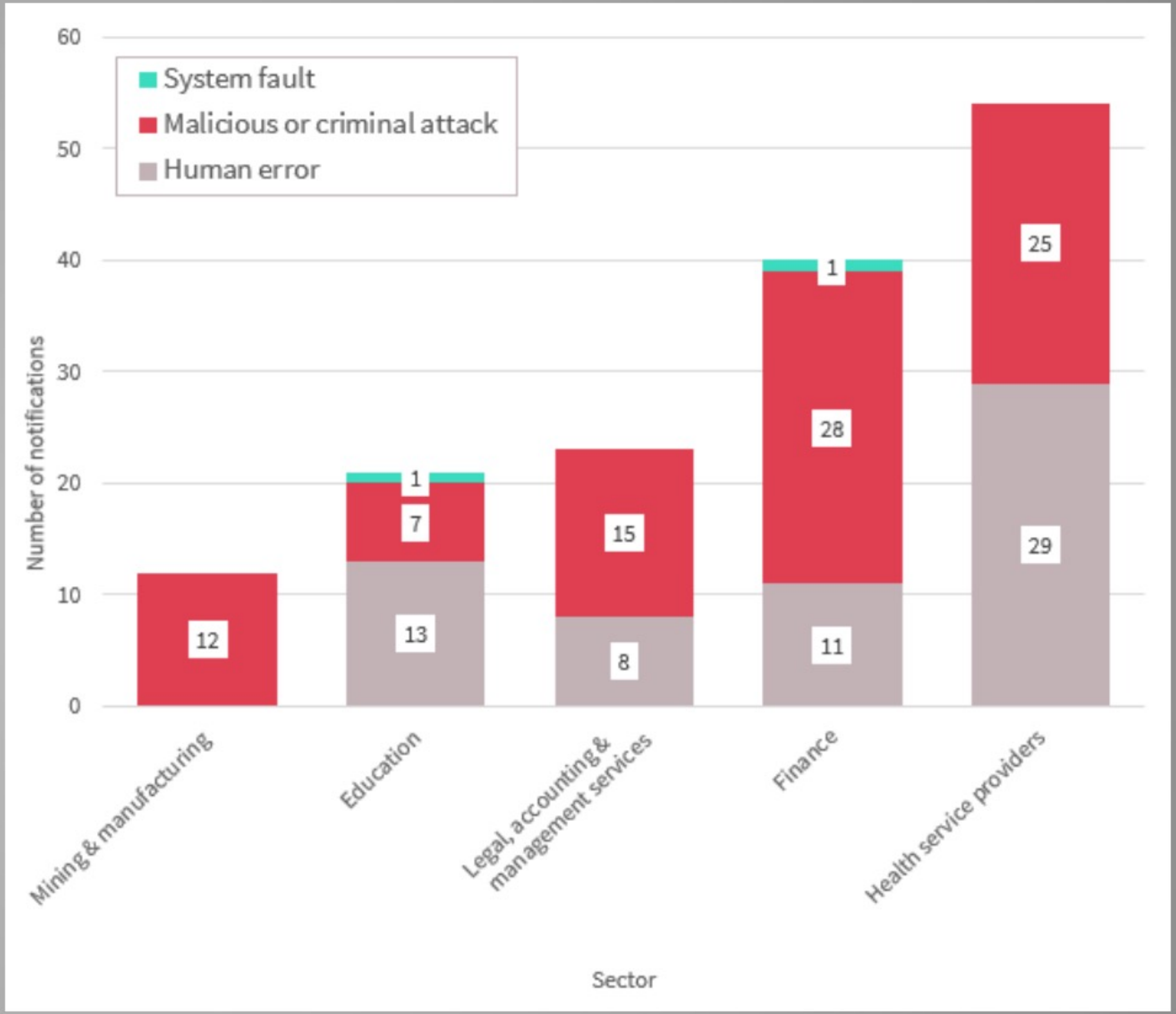
Notifiable Data Breaches scheme

On this page

- Overview
- Who must comply with the NDB scheme
- Which data breaches require notification
- Assessing suspected data breaches
- How to notify
- The role of the OAIC
- Data breach response summary diagram
- Additional resources
- Quarterly statistics

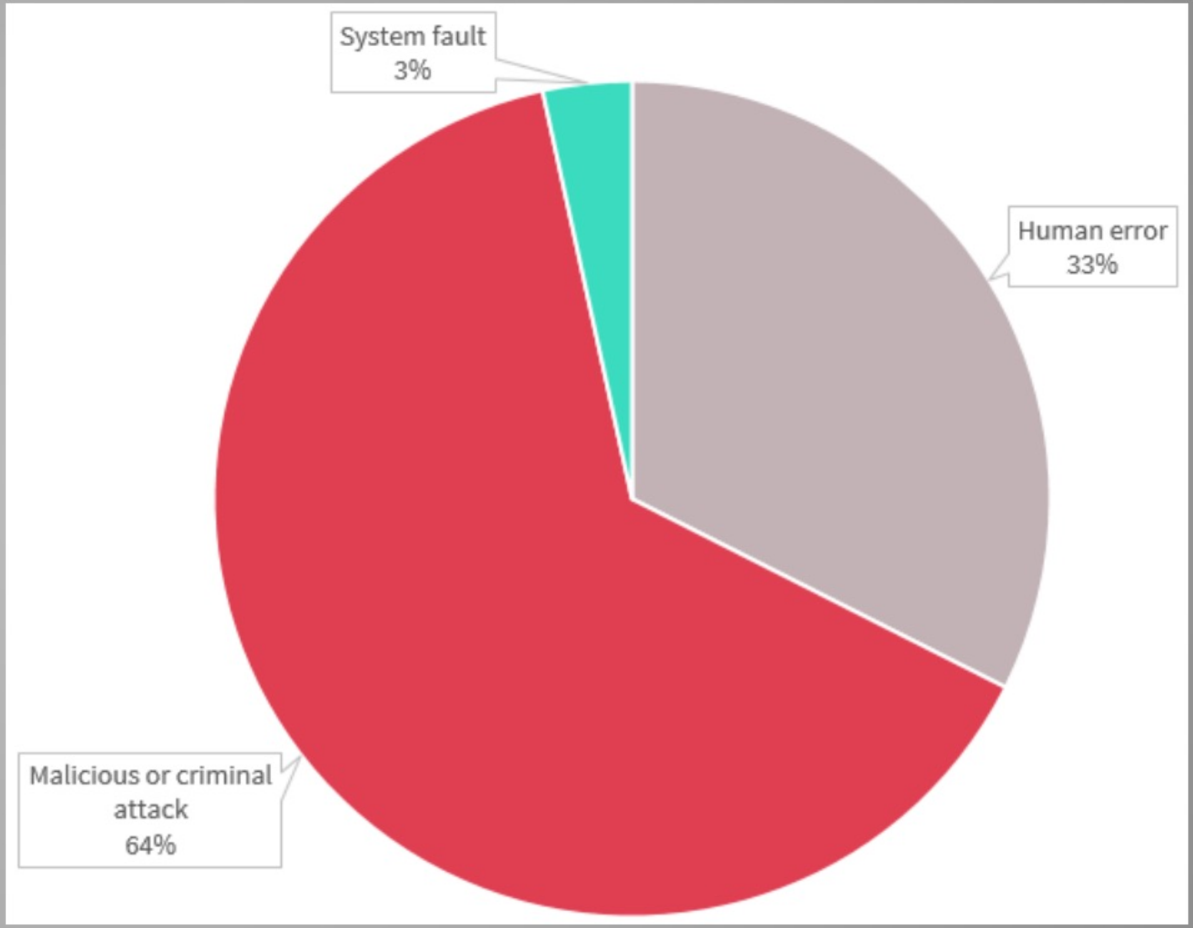
GREEN UMBRELLA TECHNOLOGY

SOURCE OF BREACHES -TOP FIVE SECTORS



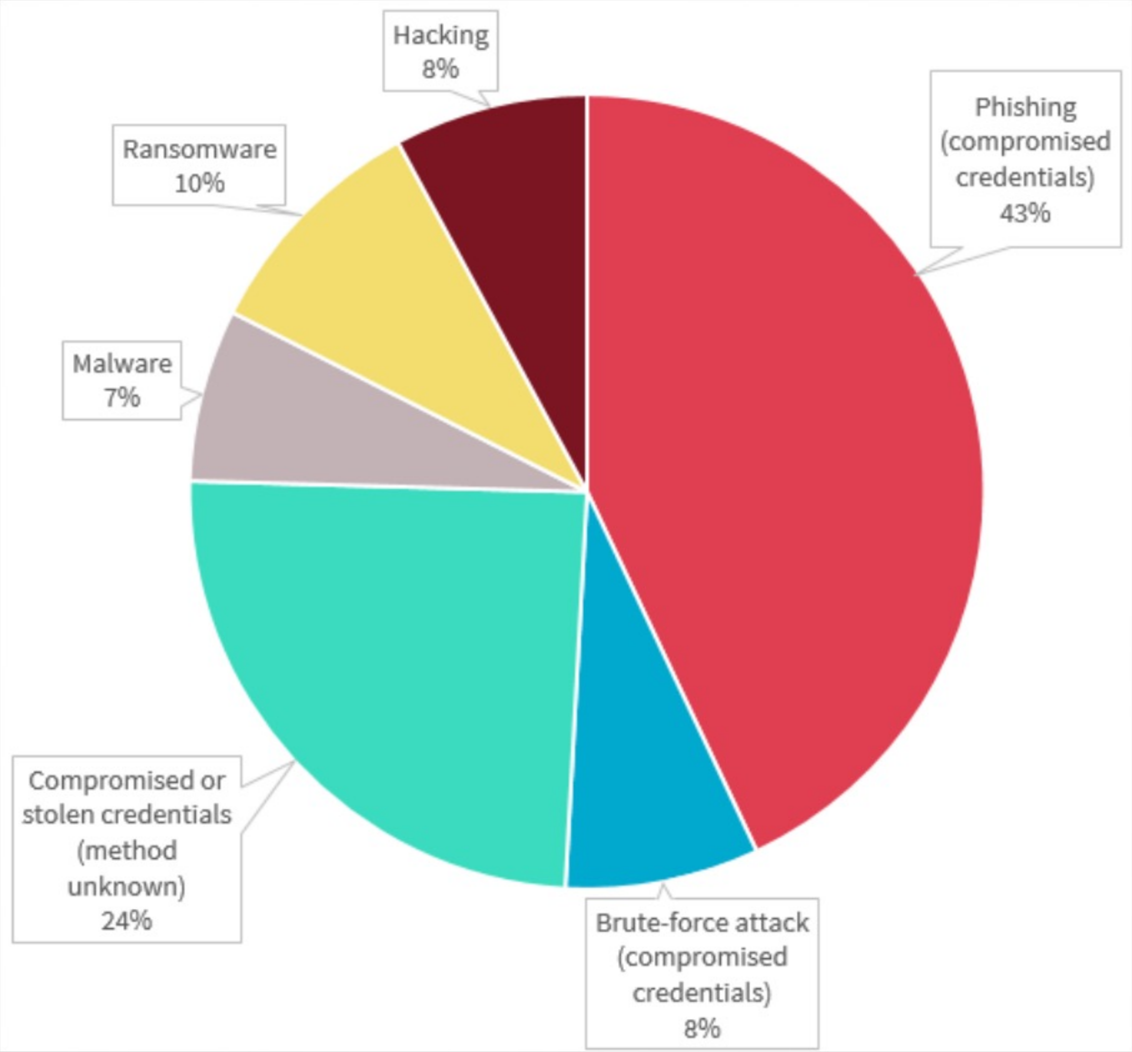
GREEN UMBRELLA TECHNOLOGY

SOURCE OF THE BREACHES -ALL SECTORS



GREEN UMBRELLA TECHNOLOGY

CYBER INCIDENT BREACHES - ALL SECTORS



GREEN UMBRELLA TECHNOLOGY

#1 CYBER INCIDENT COMPROMISED CREDENTIALS

- Collectively equate to 75%
  - Phishing attacks @ 43%
  - Brute force attacks @ 8%
  - Compromised or stolen @ 24%

Mitigated via
- Web filtering
- Email filtering
- Strong password policies
- Two factor authentication

GREEN UMBRELLA TECHNOLOGY

PHISHING EXPLAINED

Phishing is the fraudulent attempt to obtain sensitive information such as usernames, passwords and credit card details by disguising as a trustworthy entity in an electronic communication.

- Phishing site
- Real site

GREEN UMBRELLA TECHNOLOGY

BRUTE FORCE EXPLAINED

In cryptography, a brute-force attack consists of an attacker submitting many passwords or passphrases with the hope of eventually guessing correctly. The attacker systematically checks all possible passwords and passphrases until the correct one is found.

GREEN UMBRELLA TECHNOLOGY

2018 25 MOST COMMON PASSWORDS

- 123456
- password
- 123456789
- 12345678
- 12345
- 111111
- 1234567
- sunshine
- qwerty
- iloveyou
- princess
- admin
- welcome
- 666666
- abc123
- football
- 123123
- monkey
- 654321
- !@#$%^&*
- charlie
- aa123456
- donald
- password1
- qwerty123

GREEN
UMBRELLA
TECHNOLOGY

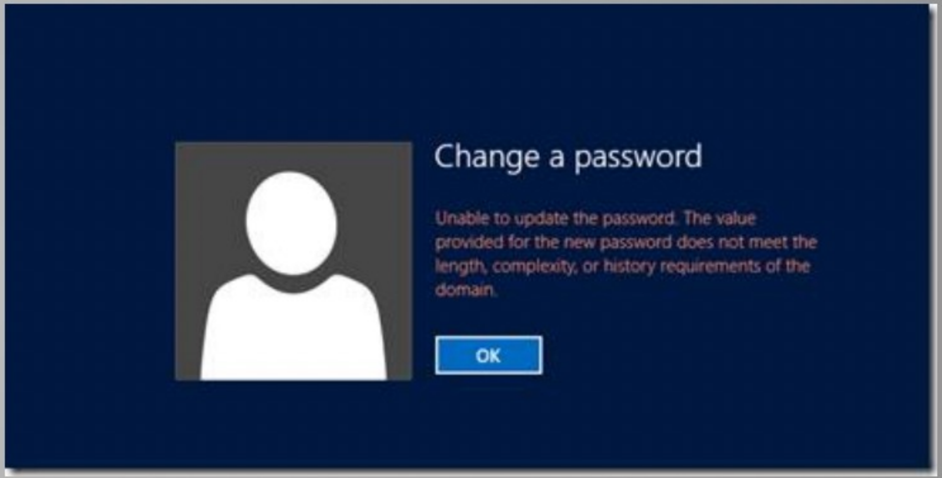
PASSWORD MANAGEMENT

- Users required to juggle multiple passwords for multiple systems
- Never use the same password for multiple systems
- Passwords need to be complex yet manageable
- Passwords should expire and be changed periodically (limited life)
- Develop & adopt a company password policy Link
- Use a password manager

PASSWORD COMPLEXITY

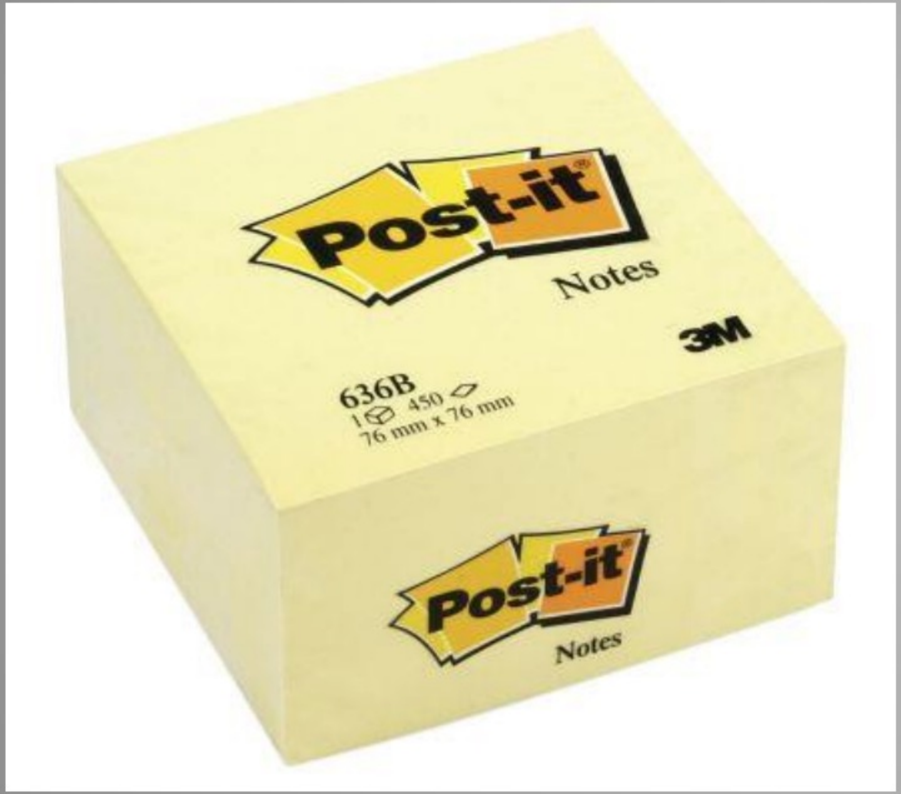
- Uppercase
- Lower case
- Punctuation
- Numeric digits

h=RqdWudxUN2FnF]



Change a password

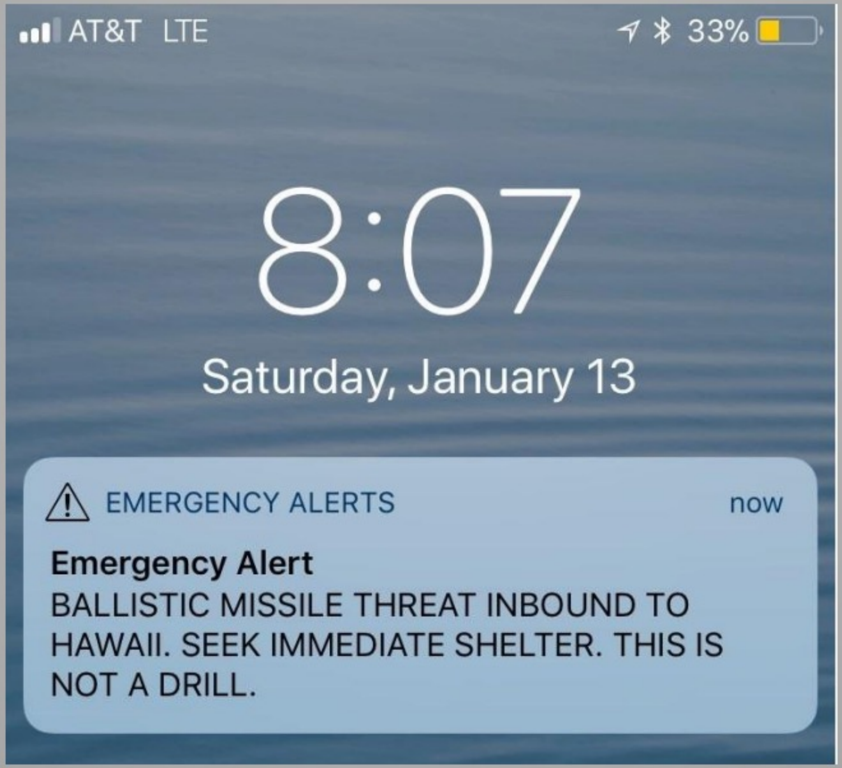
Unable to update the password. The value provided for the new password does not meet the length, complexity, or history requirements of the domain.



#1 CYBER SECURITY RISK

GREEN
UMBRELLA
TECHNOLOGY

2018 HAWAII FALSE MISSILE ALERT



8:07

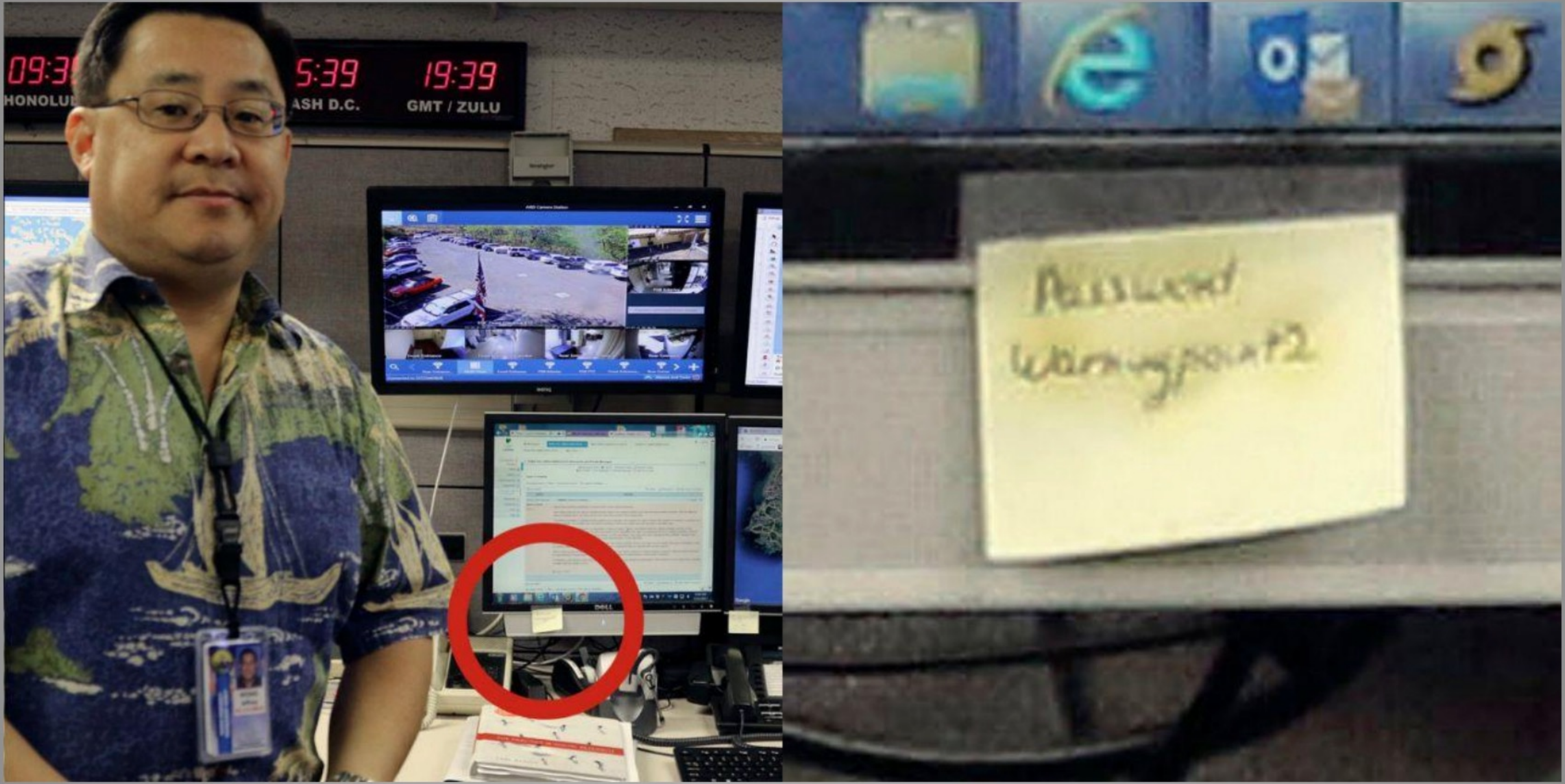
Saturday, January 13

EMERGENCY ALERTS now

Emergency Alert
BALLISTIC MISSILE THREAT INBOUND TO HAWAII. SEEK IMMEDIATE SHELTER. THIS IS NOT A DRILL.

GREEN UMBRELLA TECHNOLOGY

GREEN UMBRELLA TECHNOLOGY



GREEN UMBRELLA TECHNOLOGY

HAVE YOU BEEN BREACHED?

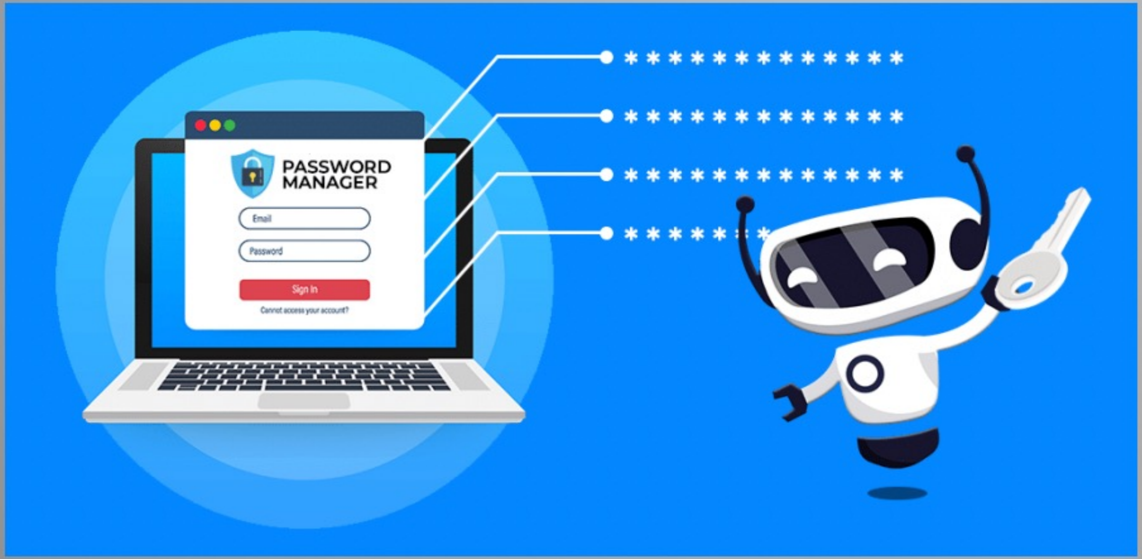
"How far prepared are you? It's no longer a case of if a threat happens but when. It may have happened already, you may have not found it yet."
- IBM Australia Industry Security Leader Stephen Burmester

https://haveibeenpwned.com/

GREEN
UMBRELLA
TECHNOLOGY

PASSWORD MANAGERS

- Password management is easy with the right tools
- Multiple password managers available:
- Green Umbrella Technology uses MyGlue internally.



Last Pass
Keeper
1Password
StickyPassword
DashLane
Password Boss
RoboForm
Nord Pass

GREEN UMBRELLA TECHNOLOGY

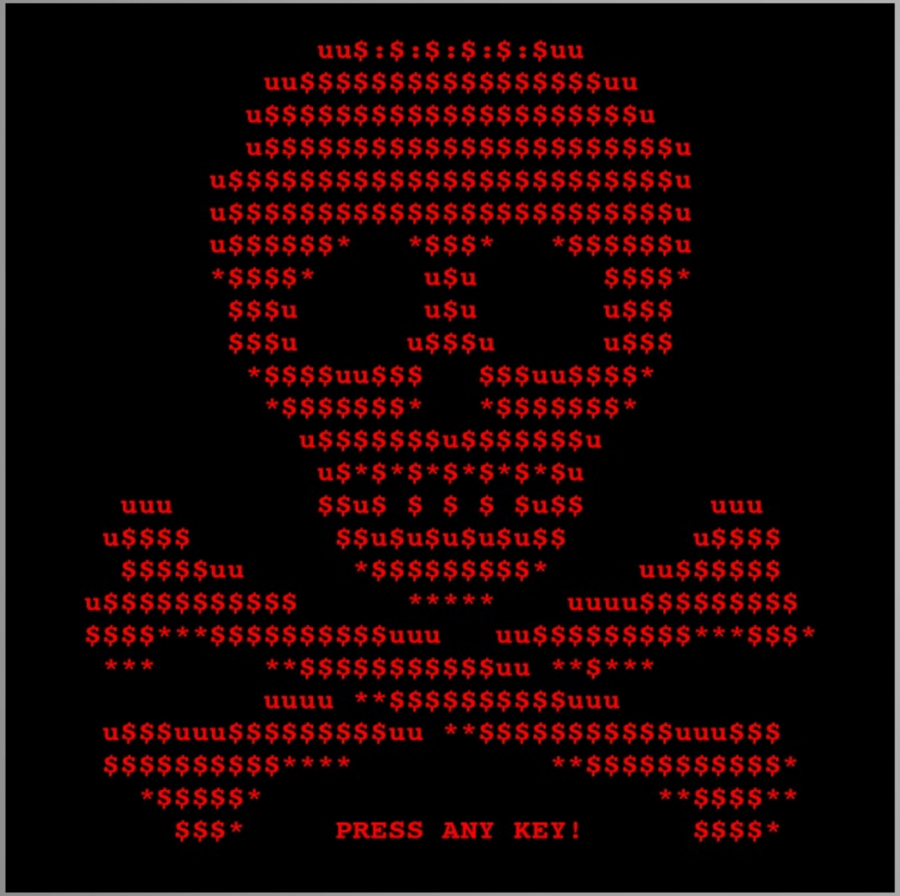
#2 CYBER INCIDENT RANSOMWARE

- Across Australia & New Zealand , an estimated 6% of small-medium businesses fell victim to ransomware in 2016-2017
- The total amount of ransom paid from these attacks…

$12.6 million

GREEN UMBRELLA TECHNOLOGY

RANSOMWARE EXPLAINED



```
             uu$:$:$:$:$:$uu
          uu$$$$$$$$$$$$$$$$$uu
         u$$$$$$$$$$$$$$$$$$$$$u
         u$$$$$$$$$$$$$$$$$$$$$$$u
       u$$$$$$$$$$$$$$$$$$$$$$$$$u
       u$$$$$$$$$$$$$$$$$$$$$$$$$u
       u$$$$$$*   *$$$*   *$$$$$$u
       *$$$$*      u$u       $$$$*
        $$$u       u$u       u$$$
        $$$u      u$$$u      u$$$
         *$$$$uu$$$   $$$uu$$$$*
          *$$$$$$$*   *$$$$$$$*
            u$$$$$$$u$$$$$$$u
             u$*$*$*$*$*$*$u
  uuu        $$u$ $ $ $ $u$$       uuu
 u$$$$        $$u$u$u$u$u$$       u$$$$
  $$$$$uu      *$$$$$$$$$*     uu$$$$$$
u$$$$$$$$$$$      *****    uuuu$$$$$$$$$
$$$$***$$$$$$$$$$uuu   uu$$$$$$$$$***$$$$*
 ***      **$$$$$$$$$$$uu **$***
          uuuu **$$$$$$$$$$uuu
 u$$$uuu$$$$$$$$$uu **$$$$$$$$$$$uuu$$$
 $$$$$$$$$$****           **$$$$$$$$$$$*
   *$$$$$*                      **$$$$**
     $$$*     PRESS ANY KEY!      $$$$*
```

Ransomware is a type of malicious software from cryptovirology that threatens to publish the victim's data or perpetually block access to it unless a ransom is paid

Mitigated via

- Web filtering
- Email filtering
- Application whitelisting
- BCDR

GREEN UMBRELLA TECHNOLOGY

BLACKLISTING VS WHITELISTING

“There are applications we know are safe. There are applications we know are not safe. But there are also applications we don’t know are not safe”

- Henry McLaughlin

	Blacklisting	Whitelisting
Know are safe	Permitted	Permitted
Know are not safe	Blocked	Blocked
Don’t know are not safe	Permitted	Blocked

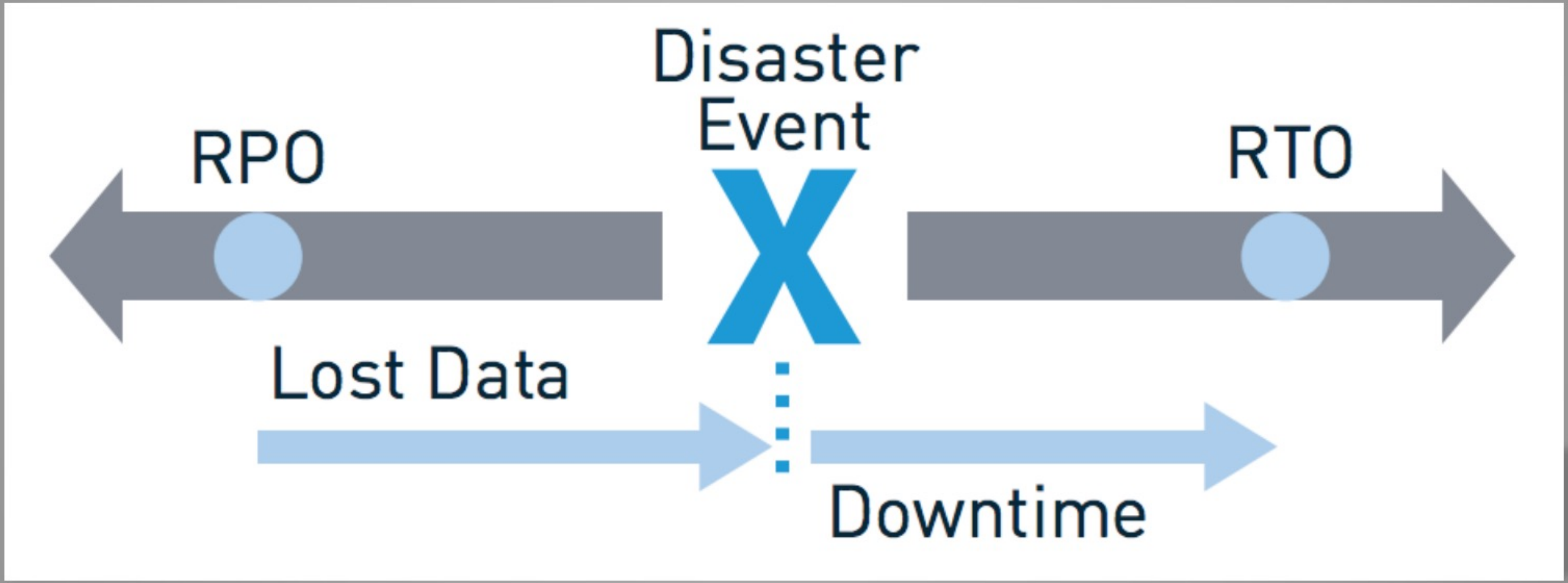
GREEN UMBRELLA TECHNOLOGY

BUSINESS CONTINUITY AND DISASTER RECOVERY IN GENERAL PRACTICE

Business
Continuity
Disaster
Recovery

GREEN
UMBRELLA
TECHNOLOGY

CONTINUITY TERMINOLOGY



GREEN UMBRELLA TECHNOLOGY

HotDoc | CPD WEBINAR

Five Drivers of a Profitable General Practice

HOSTED BY
Dr Sachin Patel

aapm
Australian Association of Practice Management
AAPM Approved
2022
5 Points

TUES 17 MAY
12:30pm AEST

Thank You

Resources

- Free! Password manager
- Slides
- Contact us

www.greenumbrella.com.au/webinar-resources-request

GREEN UMBRELLA TECHNOLOGY