



“Cyber”

NZCA

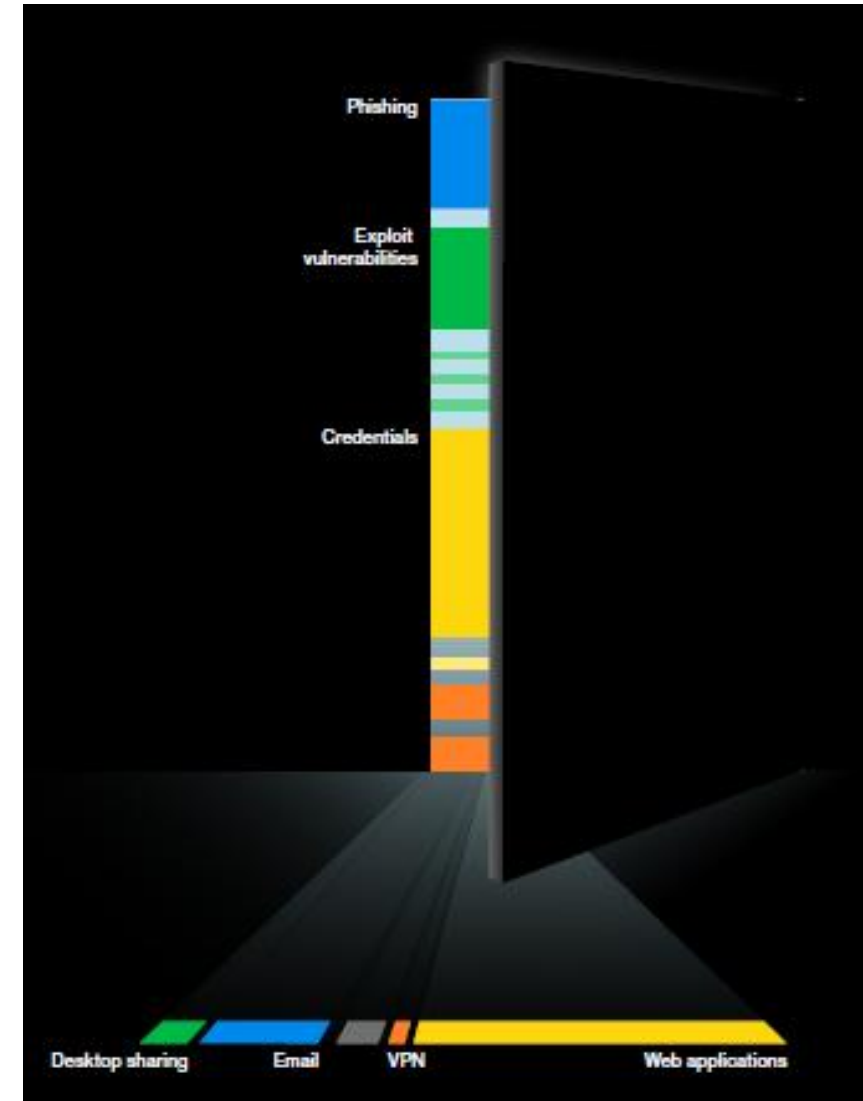
About Incident Response Solutions

- 6 Fulltime staff + Contractors and Wider Ecosystem
- Insurance, Law Firms, IT/Security Firms, Direct
- Digital Forensic Incident Response (DFIR)
- Technology Stack – Google, Microsoft, Nuix, Axiom, Cellebrite, etc – Thinkific
- AI – GPT and other uses
- Solutions for Insureds

Case Study – Accounting Firm Ransomware Attack and BEC

Verizon 2024 Data Breach Investigations Report

- 17th Edition
- Over 1 million datapoints
- 30,458 security incidents that compromised the integrity, confidentiality or availability of an information asset.
- 10,626 breaches that resulted in the confirmed disclosure of data to an unauthorised party.



What Verizon Found – Key Statistics

- **68%** of all breaches include the human element
Error, stolen credentials or Social Engineering (Privilege Misuse removed)
- **40%** of all Social Engineering incidents used pretexting
Phishing and Pretexting via email make up 73% of social engineering attacks - targeting users with existing email chains and context
- **32%** of all breaches involved ransomware & extortion
Maliciously encrypting data and demanding a ransom to return or unlock it
- **35%** involved internal actors
Intentional and unintentional harm through misuse and simple human errors
- **68%** increase in breaches involving a third party
- **95%** of breaches are financially driven
It's (almost) always about the money

Statistics at a glance

Globally

40+ billion records

exposed by cyber incidents in 2021
78% up on 2020.

\$945 billion

Losses to businesses in 2020
from cybercrime.³

150% increase

in data breaches from a year earlier.

\$145 billion

spent on cyber security by businesses in
2020, more than double 2018.⁴

21,957

common vulnerabilities and exposures²

38%

of data breaches
reported are
ransomware attacks⁵

43%

of cyber
attacks target
small business.⁶

Australia⁷

\$33 billion

Losses to cybercrime by Australian
businesses in the 2020-21 financial year.

67,500 cybercrime reports

An increase of nearly 13% from the
previous financial year.

25% of cyber security incidents

responded to by the Australian Signals
Directorate last year were against critical
infrastructure, such as energy, water,
telcos and health.⁸

22,000 calls received

by the Cyber Security Hotline, an average
of 60 per day and an increase of more
than 310% from the previous financial year.

New Zealand

28%

The number of cyber incidents in New
Zealand linked to foreign state-sponsored
computer network exploitation groups.⁹

404 cyber incidents

Nationally significant organisations
impacted in the 2020-21 financial year, a
15% increase from a year earlier

8,831 incidents reported

The number of incidents reported
to CERT NZ in 2021, a 13% increase on
2020¹⁰

² [Tenable website](#). These figures are for the year to October 2021 and are based on an analysis of publicly disclosed information

³ [McAfee Hidden costs of cyber crime](#)

⁴ McAfee

⁵ [2020-2021 NCSC NZ Cyber Threat Report By the Numbers](#)

⁶ [PurpleSec 2021 Cyber Security Statistics The Ultimate List of Stats, Data & Trends](#)

⁷ [ACSC Annual Cyber Threat Report 2020-21](#)

⁸ [Australian Signals Directorate website](#)

⁹ NCSC

¹⁰ CERT NZ's [Quarter Four \(Q4\) Report](#)

US Government - Risk Vulnerability Analysis 2023

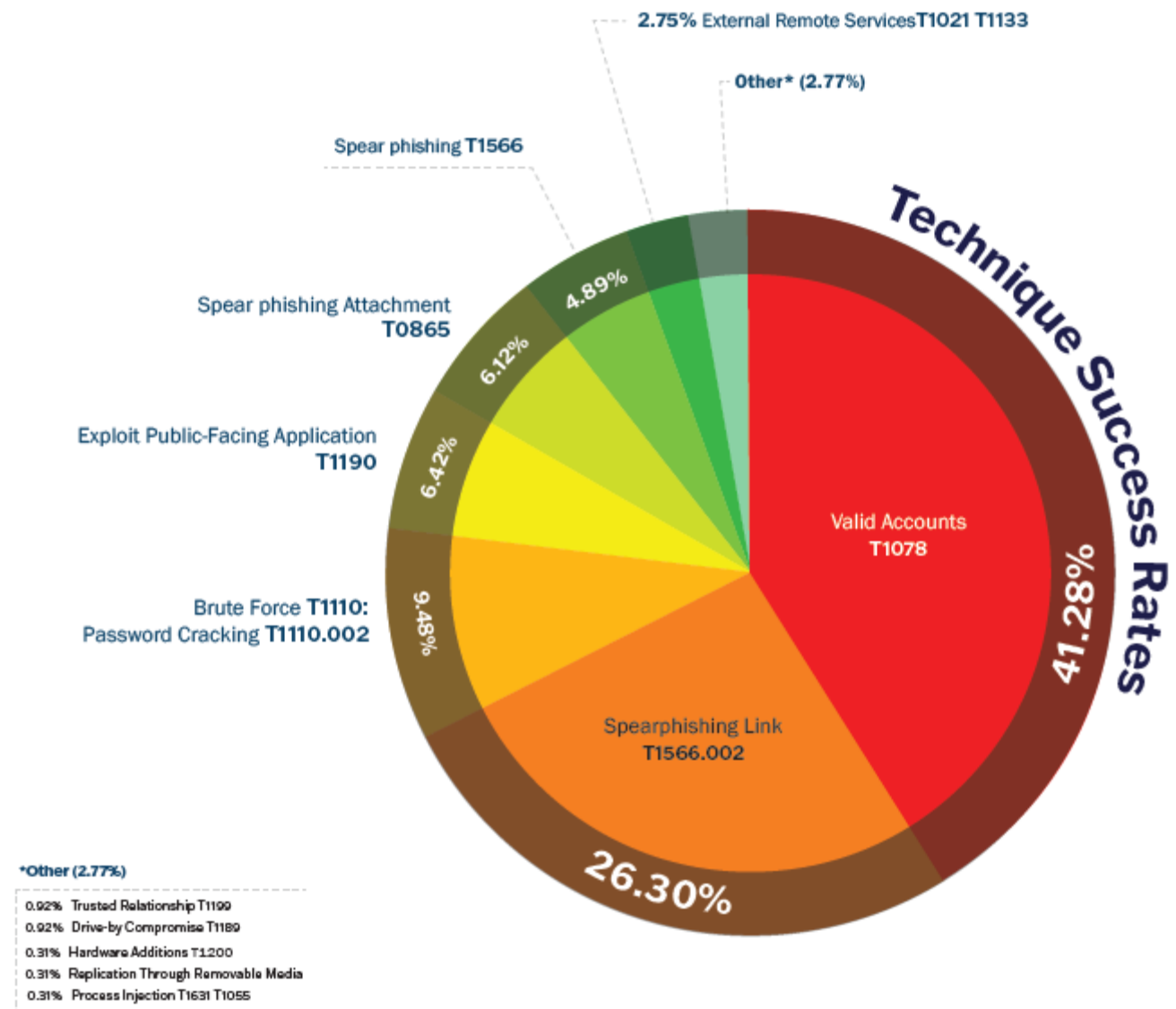
FY23 RVA Results

MITRE ATT&CK™ TACTICS AND TECHNIQUES

Initial Access

Threat actors attempt to obtain unauthorized initial access into a victim's network. Actors use techniques, such as Valid Accounts T1078 or Spear Phishing Link T1566.002s, to gain this access. After obtaining initial access, actors can then execute other techniques to move about the network.

- Cracking password hashes (89% Administrator accounts)
- Default or stolen administrator accounts
- Former employee accounts that have not been removed
- Initial access brokers that sell exploits and valid credentials



Adversary-in-the-Middle (AiTM) – Business Email Compromise



Te Tira Tiaki
Government Communications
Security Bureau



Phishing campaign targeting New Zealand organisations

Kia ora,

The NCSC is aware of a multi-stage phishing campaign currently impacting New Zealand organisations, active since at least 05 June 2024.

State of Ransomware

Welcome to 🦖 RansomLook 🦖 !

October 16Th, 2024

Currently tracking **226** groups across **653** relays & mirrors - **264** currently online

Currently tracking **108** forums & markets across **193** relays & mirrors - **102** currently online

Currently tracking **253** telegram channels.

There have been **24** posts within the last 24 hours

There have been **285** posts within the month of october

There have been **1441** posts within the last 90 days

There have been **4300** posts within the year of 2024

There have been **16663** posts since the dawn of ransomlook



Regulatory Landscape

Medibank data breach: alleged timeline

This infographic summarises the Australian Information Commissioner's alleged timeline of the Medibank data breach as set out in the concise statement filed in the Federal Court.

Before 7 August 2022

An employee of a third-party IT provider contracted by Medibank saved their Medibank credentials to their personal internet browser profile on their work computer. These credentials were then synced to their personal device. This person had a Medibank admin account.

Around 7 August 2022

The Medibank credentials were stolen from the third-party's employee's personal device by malware.

12 August 2022

The threat actor tested the Medibank credentials for the admin account.

Around 23 August 2022

The threat actor authenticated and logged onto Medibank's virtual private network (VPN), which allowed remote access to the Medibank corporate network. They installed a malicious script.

Around 24–25 August 2022

Medibank's endpoint detection and response (EDR) security software generated various alerts that were sent to the Medibank IT Security Operations email inbox, but not appropriately triaged or escalated at the time.

At the time, Medibank's VPN did not require 2 or more proofs of identity or multi-factor authentication; only a device certificate or a username and password was required.

Around 25 August–13 October 2022

The threat actor accessed numerous Medibank systems and extracted approximately 520GB of data. The EDR software generated further alerts, which were not appropriately triaged or escalated at the time.

11 October 2022

Medibank's IT Security Operations team triaged a high severity incident after an alert and engaged a third party to investigate.

Around 16 October 2022

The third party noticed suspicious volumes of data had been extracted.

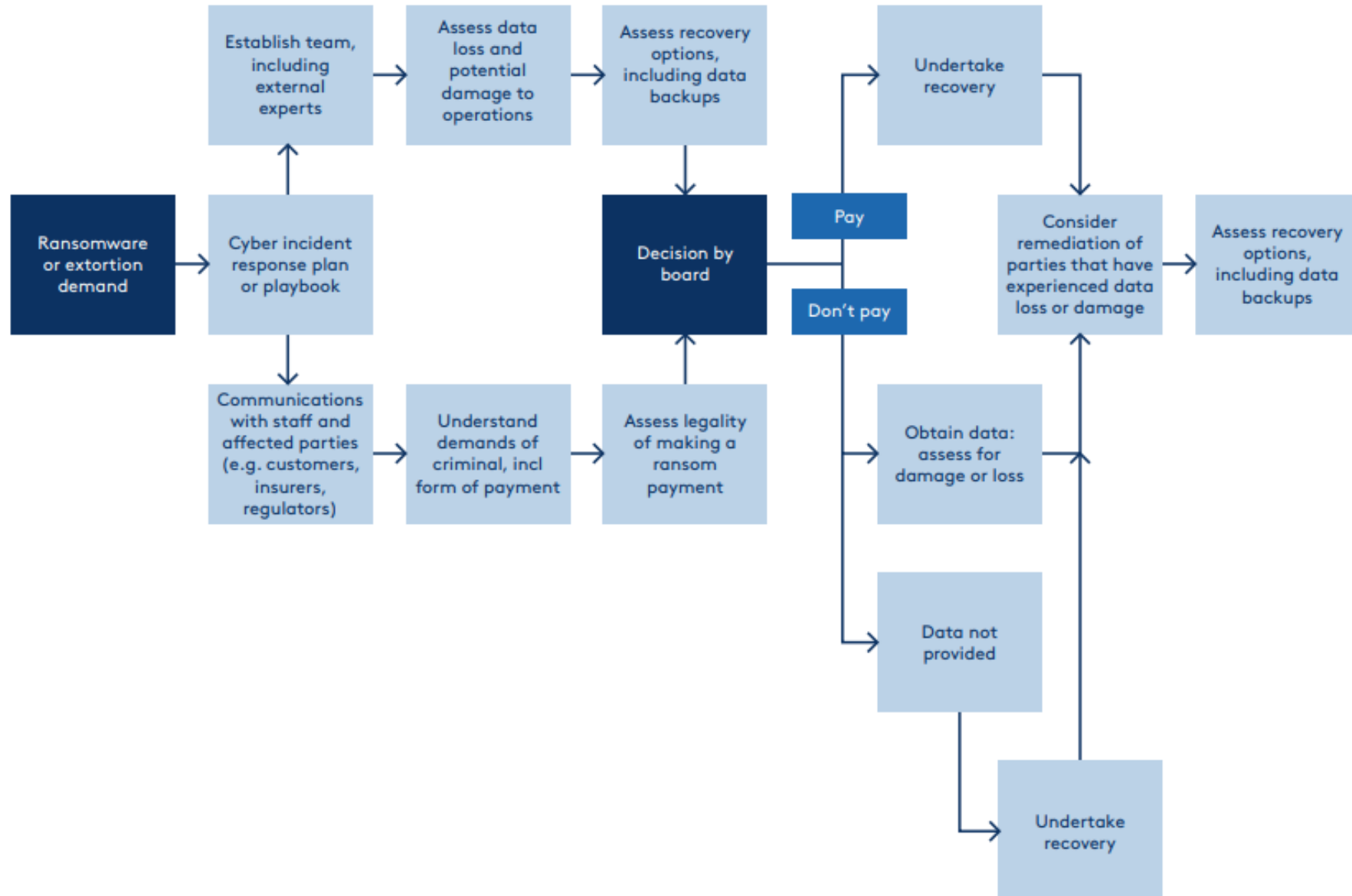
19 and 22 October 2022

The threat actor contacted Medibank and provided sample data as evidence of the breach.

9 November–1 December 2022

The threat actor published data on the dark web.

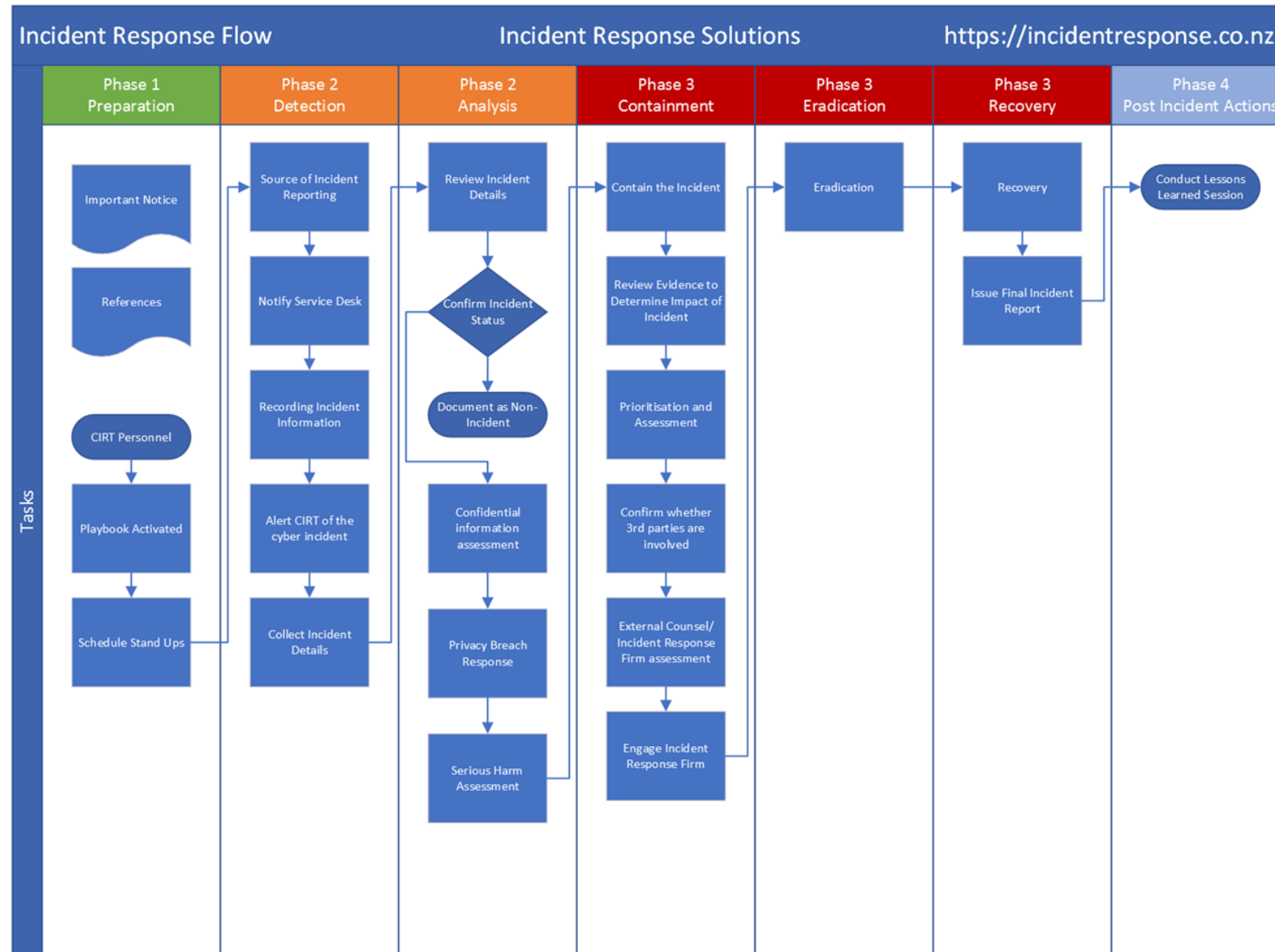
Ransomware Decision Making Process - AICD



Cyber Risk Mitigation Strategies



Solution - Control Room (Plans and Playbooks)





Solution – Cyber Security Awareness Training (LMS)


Cyber Security Training


All Products Sign In **Get started now**


Course curriculum


Welcome to the course! 


Recognize Social Engineering Attacks 

 [Recognize Social Engineering Attacks](#) **FREE PREVIEW**

 [Recognize Social Engineering Attacks](#) **FREE PREVIEW**

Authentication Best Practices 


 [Authentication Best Practices](#)

 [Authentication Best Practices](#)

CIS Controls

Version 8

About this course

 17 lessons

Solution – Cyber Security Awareness Training (LMS)

QUESTION 1 OF 5

Which of the following best describes a phishing attack?

Choose only ONE best answer.

- ☐ A An attacker physically following an employee into a secure area
- ☐ B Cybercriminals sending deceptive emails that appear to be from trusted sources to obtain sensitive information
- ☐ C An attacker using a fabricated story to gain sensitive information
- ☐ D An employee accidentally sharing their password with a trusted colleague

CONFIRM

Thank you

Campbell McKenzie

0800 WITNESS or 021 779 310
campbell@incidentresponse.co.nz

incidentresponse.co.nz
whistleblowers.co.nz

