Adopting Al/ML to Address Human-Centric Risks

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Proofpoint





Introducing Proofpoint





\$1.87B

98%

21%

4.4K

Proofpoint Revenue

Recurring Revenue

Percentage of Revenue Reinvested in R&D

WW employees, hiring continues



>510K 150+

87%

>60%

#2

47%

Customers

Global ISP and Mobile Operators F100 Protected by **Proofpoint**

F1000 Protected by **Proofpoint**

DI P market share

F100 using Proofpoint DLP

People Protection

Information Protection



3.1T >1.4T 0.8T 21T 15.7M >41%

69P

Emails scanned per vear

SMS/MMS scanned per year

Attachments scanned per year

URLs scanned per vear Annual total archive searches

F1000 emails authenticated by Proofpoint Petabytes of archive data under management

Proofpoint's Data

>183M

66M

116M 160+ and 0

Phishing simulations sent per year

BEC attacks stopped per month

Telephone Oriented Attacks stopped per year Win rate over Red Teams in **Identity Threat**

M365/Google accounts monitored for takeover detections

Let's Talk About Two Challenges Today



Phishing and Business Email Compromise

#1 Method of Cyber Breach in Australia H2 2023 (OIAC)

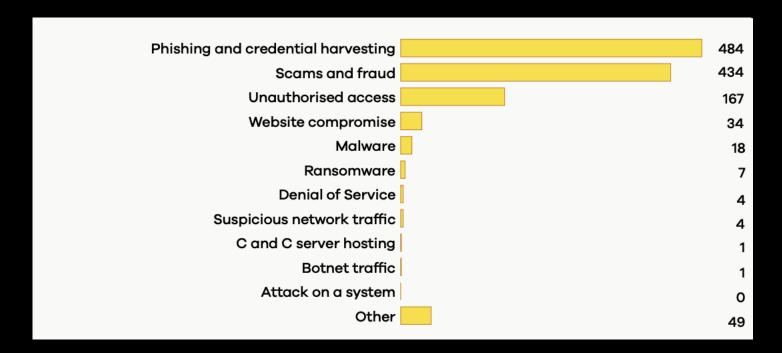
Costing Australian organisations over \$220 Million Dollars annually (ACCC 2022)

Accidental Data Disclosure via Email

#1 cause of PII loss incidents via Human Error H2 2023 (OIAC)

What's Targeting New Zealanders?





https://www.cert.govt.nz/assets/Uploads/Quarterly-report/2024-q2/Cyber-Security-Insights-Q2-2024.pdf

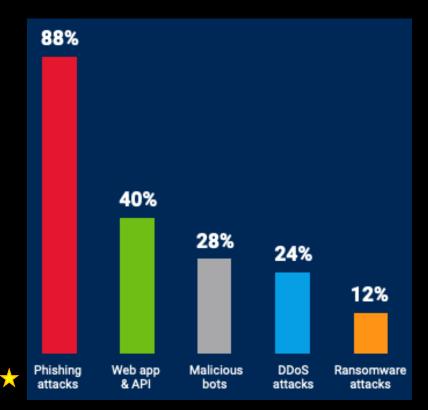
Akamai Financial Services Report

2023



Reported cyber attacks over a period of 12 months, by Australia FinServ organizations.

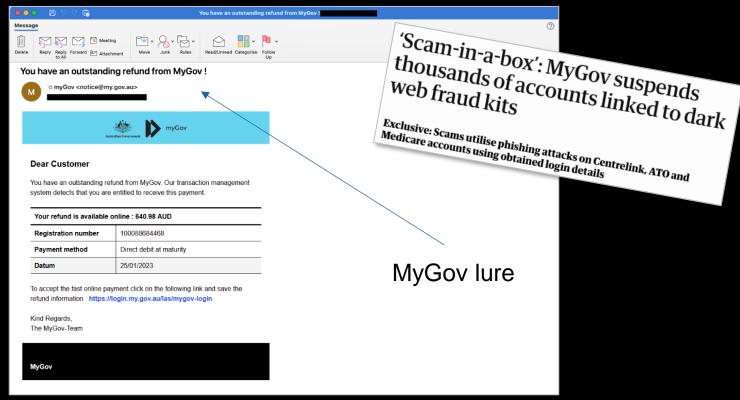
Phishing attacks at the top with 88%.¹



[1] "Cybersecurity in Financial Services Australia." Akamai <u>link</u>

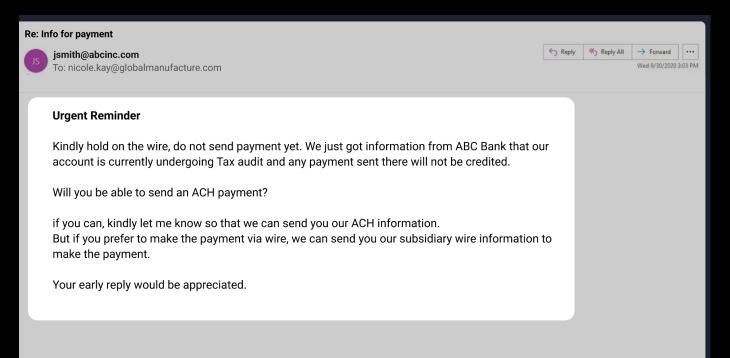
Credential Phishing Targeting Users





How can Al and LLM Help?



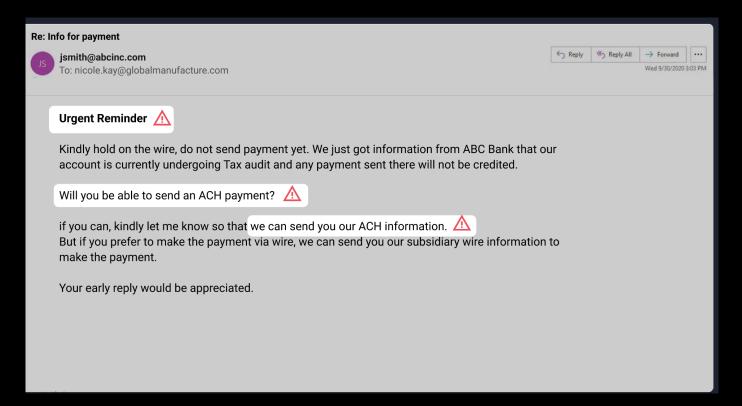


This is a difficult type of email to spot

It has no malware, talks about financial transactions in an official way - similar to a normal email.

How can AI and LLM Help?



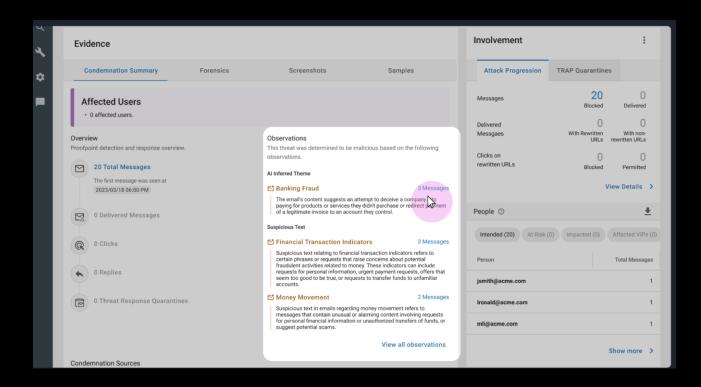


LLMs help us highlight key phrases (not new) but also allow us to understand the intent of the email.

We use this in combination with other factors (previous history, characteristics) to spot the fraud

How can Al and LLM Help?





Al then allows us to understand the threat and gives us human instructions on why it was stopped

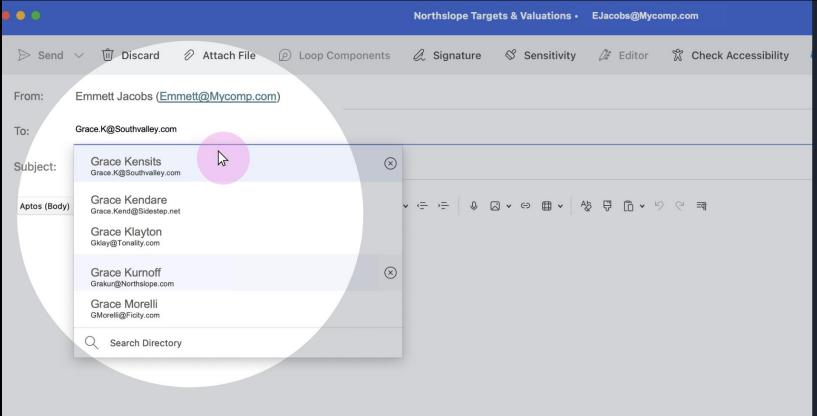
Further, it gives us the ability to suggest next steps and further action



Now Moving onto Accidental Email Loss

Misdirected Email – A Common Problem





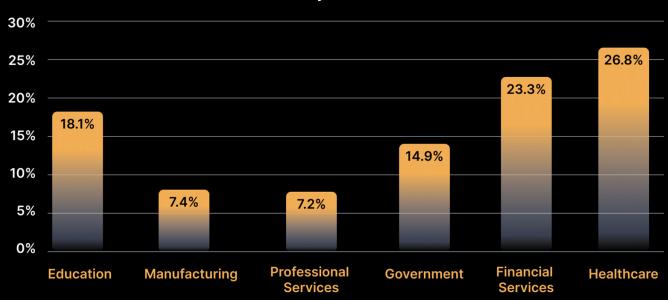
pro

C.

Reminder: How big is the risk?



Email Misdelivery as % of Data Breaches



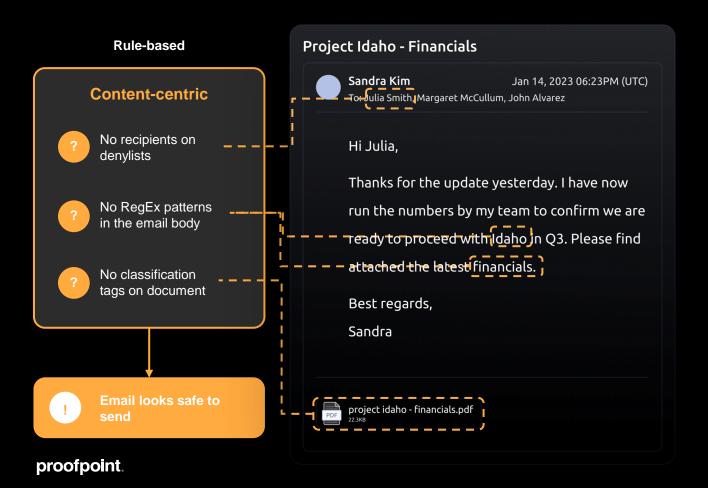
Source: 2022 Verizon DBIR



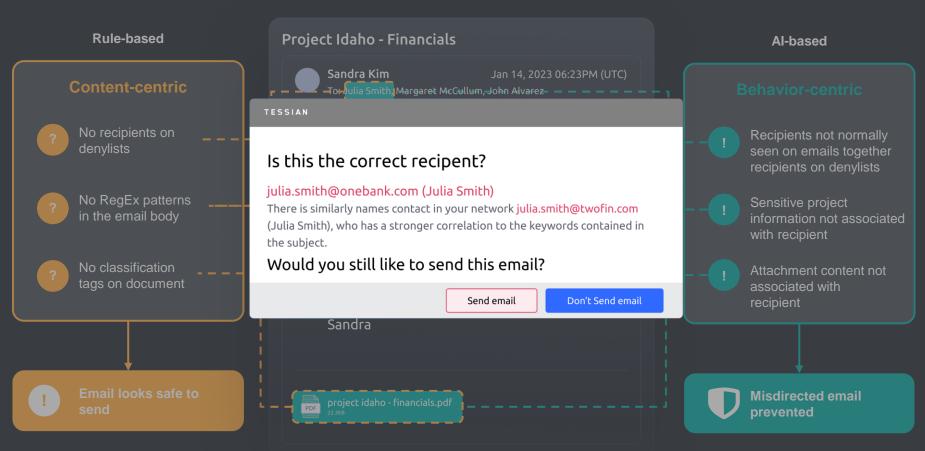
How can Al Help?

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Rule-based Email DLP Systems Are Blind to Many Data Loss Incidents



Adaptive Email DLP Automatically Detects What Rule-based DLP Misses



proofpoint.

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Cloudy Bay Deluxe Wine Hamper

- 1 x Bottle Cloudy Bay Sauvignon Blanc Wine
- 1 x Bottle Cloudy Bay Pinot Noir Wine
- 1 x Bottle Cloudy Bay Pelorus Sparkling Wine
- 1 x Bottle Cloudy Bay Chardonnay Wine











Protect People. Defend Data.