

Agenda



- The insider breach problem
- Prevent and Protect
- New ways to prevent and protect
- Summary

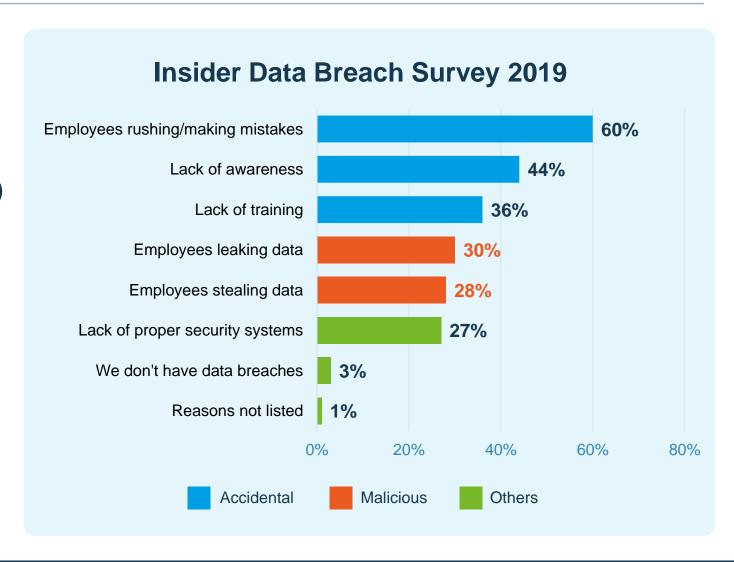


The insider breach problem



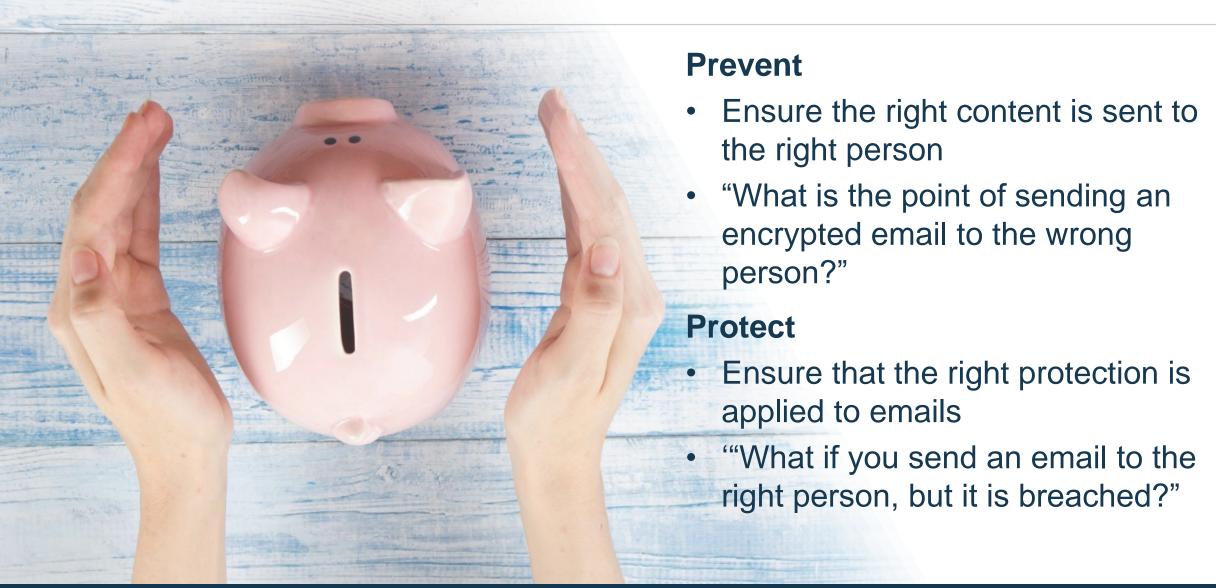
Ponemon Institute: Survey of 1,700 customers

- Majority cited negligent insiders (64%) vs. malicious insiders (23%)
- Employee negligence cost \$283,281/incident vs. malicious insider cost of \$607,745
- Two month average to contain an insider incident
- Only 16% contained in less than 30 days



Effective email security: Prevent and protect





Prevent: Older signature-based DLP systems



Use static rules to detect breaches

Manage database of rules on what users can and cannot do

Require regular maintenance and updates

- Do not account for context, past behaviour and relationships
- Cannot prevent against misdirected emails



Prevent: The new way



Machine learning to prevent breaches

- Use parallel processing and cloud to ingest vast quantities of data
- Link relationships and past behaviour to detect anomalies
- Learn as they go: No need to maintain static rules



Prevent: Misdirected email use cases



- Outlook auto-complete mistakes
- Mis-typing of recipients
- Sending the wrong attachment to the wrong person
- Sending sensitive data to the wrong person or domain
- Ethical walls / Internal breach



Prevent: Anti-phishing use cases

C. egress

- Edge-based solutions block 95% of attacks.
 Last 5% cause most damage
- Business email compromise (BEC) scams lost over \$1.6bn in 2018
 - Scammer pretending to be a manager, co-worker or supplier
 - Google and Facebook transferred over \$100m to a fake supplier
 - More targeted / More Frequent



Prevent: Anti-phishing Example

BEC solutions

 Anomaly detection of the individual mailbox based on content and recipients

Domain type squatting detection
 www.britishairways.com vs. www.brtishairways.com

Impersonation detection

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Summary



- Insider breaches account for the vast majority of data breaches
- Al and machine learning do deliver on specific use cases
- Prevent and protect go hand-inhand for comprehensive email security





Thank you for your time

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