



# Implementing an Enterprise Phishing Program & Lessons Learned

# Events that drove the Project

- u Increase in Business Email Compromise (BEC) attempts
- u Increase in Wire Transfer Requests via Spoofed email
- u CEO Spoofed emails
  - u Several attempts to CFO via email
  - u CFO responded once, then realized it was a spoofed email.
  - u Many other departments also receiving spoofed emails from CEO/CFO
- u Phone calls impersonating CEO asking for Wire Transfers
- u Lack of employees following annual training guidance and ad-hoc "alert" communications. Needed another layer.

# Two products for PoC

- u Focus was on Phishing Awareness and Correcting Negative behaviors.
- u Solution needed to be SaaS
- u Ability to “report” Phishing Attempts required
- u Budget conscious
- u Multi-Language Support

Products selected for live Proof of Concepts:

- u PhishMe
- u KnowBe4



# Proof of Concept Summary

- u Aligned approach with critical department heads
  - u Legal
  - u Compliance
  - u HR
  - u IT
  - u Internal Audit
- u Two Live tests with approximately 200 employees each with master Finance Roles in our ERP system.
- u Goal was to determine ease of use with tool, feature capabilities, and reporting functionality

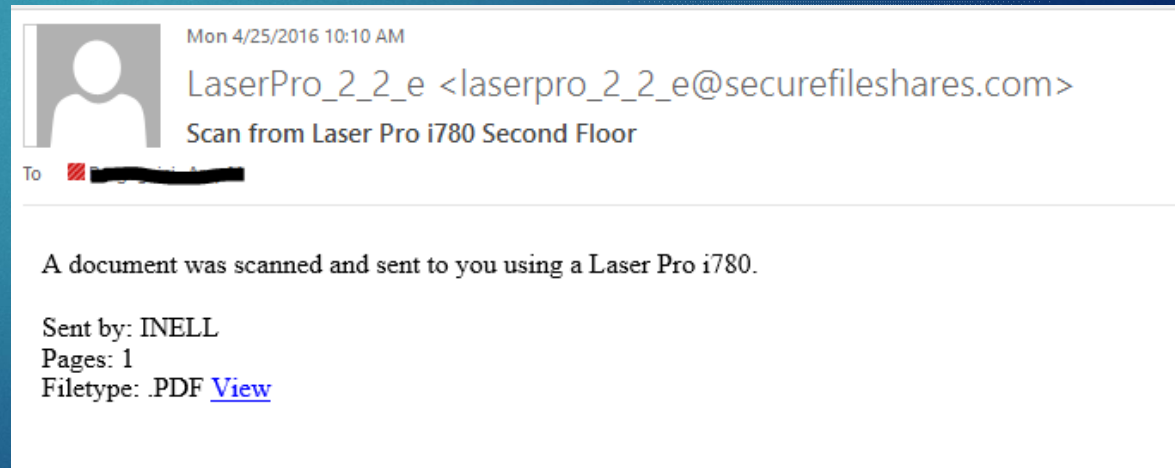
# Baseline Tests

## § SCOPE:

- § 180 ERP users
- § 20 Highly Visible email addresses found publicly on the internet
- § Test lasted 5 days.

## § SCENARIO:

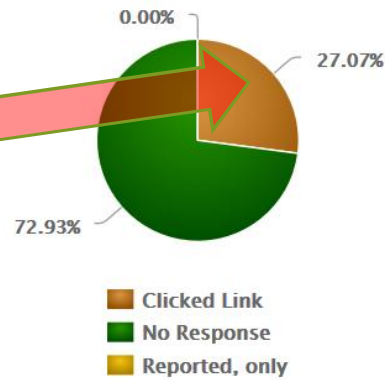
- § "Click Only" email scenario.
- § Simulated an attached PDF from an external multi-function device.
- § Clicks on the "View" link counted as a "Clicked Link"



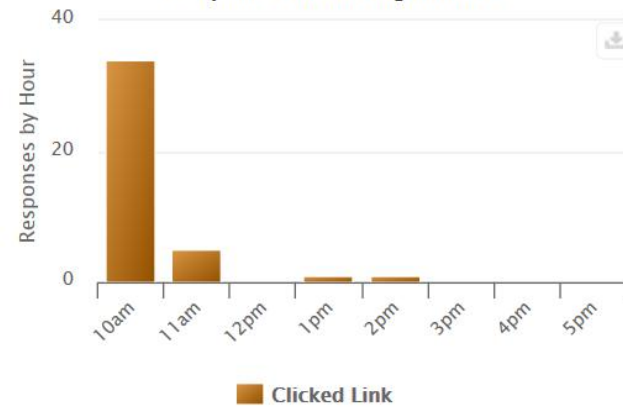
# Baseline Results!

27%  
CLICK  
RATE!!

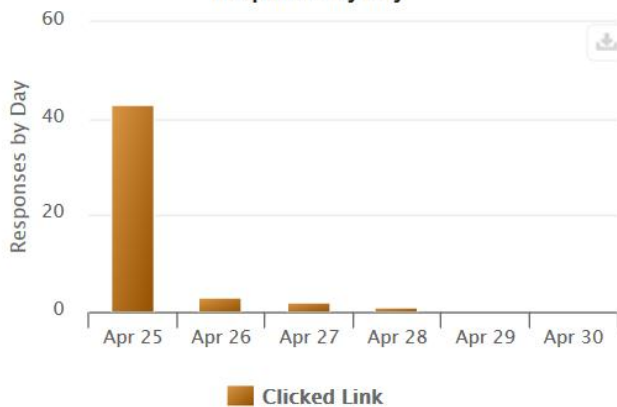
### Response Breakdown



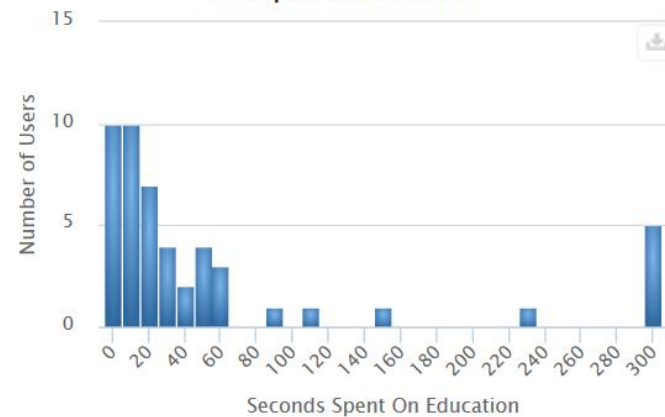
### Responses in First Eight Hours



### Responses by Day



### Time Spent on Education



# Time to Choose a Platform

- u Although platforms were very comparable, we chose PhishMe
- u Long and trusted history with vendor
- u PhishMe purposely does not use Copyright images in their scenarios
- u Support team was very prompt
- u Good multi-language support
- u PhishMe Reporter prompts default to system language

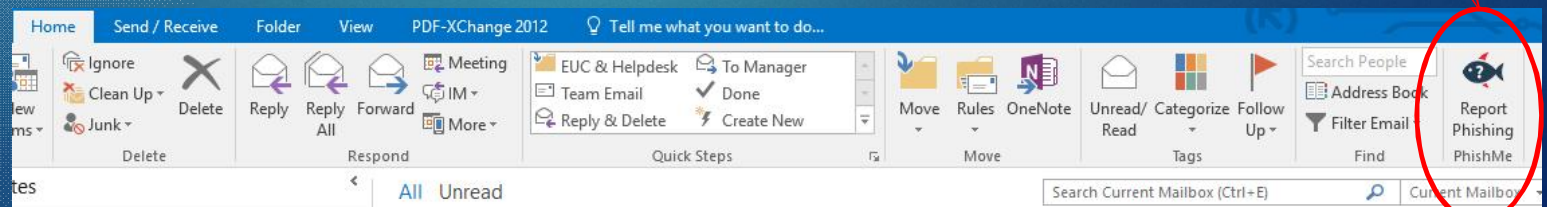
# Program

- u Baseline tests were done without advanced notice
- u Communication campaign launched
- u Announced the Phishing program globally
- u Announced the new way to report Phishing attempts
- u Announced exclusive “prize” for first employee to correctly identify and report via PhishMe button a phishing scenario
- u Summary emails of how the company did at the end of each scenario.
  - u Publically “celebrate” the first employees to report and announce that they won a prize.



# Report Phishing Attempts

- u Outlook add-in button for reporting Phishing attempts
  - u Announced and added via SCCM to all users Outlook ribbon
  - u Also shows up via “right-clicking” an email in the Outlook inbox
- u End user action is identical regardless of real or scenario Phish
- u Reporter displays different messages when clicked
  - u If real Scenario, displays “Congratulations! You have correctly identified a phishing attempt, thank you for keeping us safe!”
  - u If real Phish, displays “Thank you for reporting the phishing attempt. The message has been routed to the InfoSec team for appropriate action”.



# Progam Announcment

[Custom Emails Details Removed]

# Reporter Announcement

[Custom Emails Details Removed]

# Trends



# Repeat Offenders

- u After first three scenarios, 275 users had a 100% click rate
- u This represents about 8% of our workforce apparently will click and open anything.
- u Future thoughts – provide additional live training to repeat offenders
  - u Determine threshold at which point you notify employees manager
  - u Determine if we take further action for repeat offenders

# Lessons Learned

- u We allowed external emails spoofing our domain to come in.
  - u This has been stopped.
  - u Lots of whitelisting
- u Focus on correcting negative behaviors in a positive way
- u Communication is required
- u Partner with Infrastructure, Legal, Compliance, HR
  - u Infrastructure may be your Triage team
- u Lots of "spam" being reported as phishing.
  - u Goal is to train users what Phishing really is, and to report Phishing and not spam

Thank you!

