



Today's web conference is generously sponsored by:

# proofpoint

https://www.proofpoint.com/





Moderator
Rob Martin, CISSP

Robert Martin is a Certified Information Systems Security Professional with over thirteen years of experience in information security. He holds a Master of Science in Network Technology with a concentration in Information Security. He also holds a Cyber Security Masters Certification. He is a Sr. Security Engineer for Cisco Systems, Inc. in RTP, NC. Robert specializes in areas such as risk management, regulatory compliance, security solutions architecture, security audits, vulnerability assessments, and penetration testing. From 2012-2015, Robert served as President of the Raleigh Chapter of ISSA. During that time, the chapter membership grew at a rate of 125%. Currently, Robert serves on the Raleigh ISSA Board as the Sponsorships Director. Robert is committed to serving the community through outreach by expanding the chapter's mission to students and military. He has held several other IT Security Advisory Board positions over the years with a focus to bring about awareness of information security threats in an everchanging global IT Security economy.





Speaker

Gretel Egan
Security Awareness and Training Stategist
proofpoint

Gretel Egan is the Security Awareness and Training Strategist for proofpoint. A graduate of Carnegie Mellon University, she has extensive experience in researching and developing cybersecurity education content and was named one of "10 Security Bloggers to Follow" by IDG Enterprise. Gretel has written and provided commentary for national, industry, and trade publications, and has previously presented at events hosted by SecureWorld, Infosecurity Europe, ISACA, SC Media, and others.



www.issa.org

# 2020 State of the Phish Report

Using phishing data to inform decision-making for your organization

## Critical, Actionable Insights



- > Sixth annual report, more data-rich than ever
- Multiple sources of data

A survey of more than

3,500

working adults across seven countries

(the United States, Australia, France, Germany, Japan, Spain and the United Kingdom) A survey of more than

600

IT security professionals across the same seven countries

Nearly

50M

simulated phishing attacks sent by our customers over a 12-month period More than

9M

suspicious emails reported by our customers' end users



# In the Mind of the End User

Global Awareness Levels of Working Adults

### Conquering the Cybersecurity **Language Barrier**



What is

**PHISHING?** 



Correct

What is

**SMISHING?** 



Correct

What is

MAIWARF?



Correct

What is

VISHING?



Correct

What is

RANSOMWARE?



Correct

### How Lack of End-User Awareness Leads to Risk



26%

believe they can
safely connect to
public Wi-Fi networks
in trusted locations

32%

don't know what a virtual private network (VPN) is

51%

think IT teams
are automatically
notified when viruses
and/or malware are
accidentally downloaded

66%

believe up-to-date anti-virus software prevents attackers from accessing devices



# **Phishing Impacts and Insights**

What infosec pros are experiencing

# What Phishing Looked Like for Infosec Teams in 2019



~60%

said the rate of phishing attacks stayed the same or decreased compared to 2018

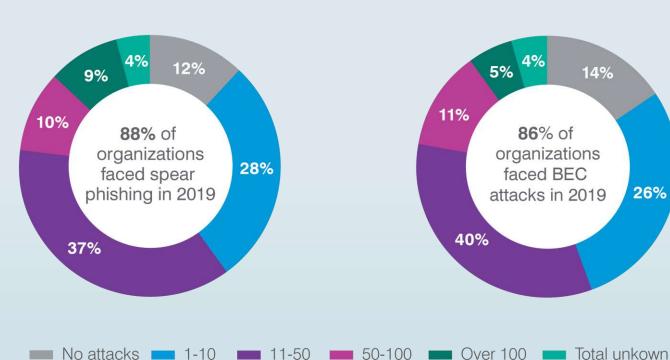
55%

of organizations
experienced at least
one successful
phishing attack in 2019

## **Targeted Attacks Seen by Most Organizations**







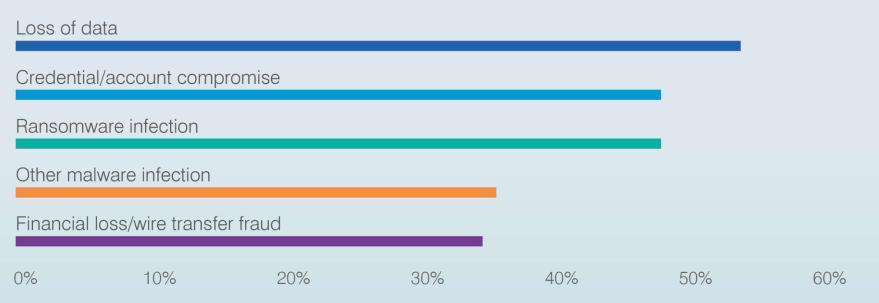
#### **Volume of BEC Attacks**



# How Organizations Were Affected by Phishing



#### **Impacts of Successful Phishing Attacks**





# Putting Data to Work for You

Using benchmarks and organizational data to your advantage



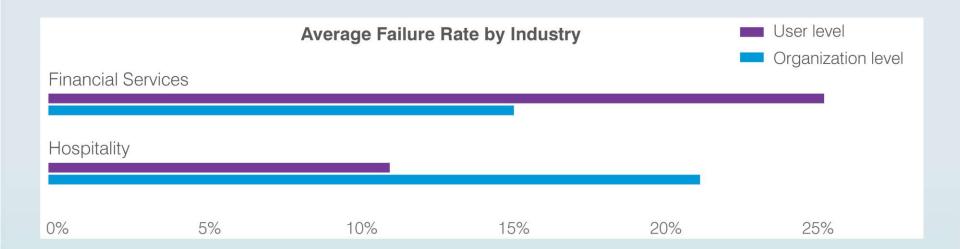
### Failure Rates: A Fresh Look for 2020



© 2019 Proofpoint. All rights reserved

# **Industry Failure Rates: Better Benchmarking for 2020**





# **Email Reporting Metrics: Key for Gauging Success**



		Average Reporting Rate by Industry		
Finance				
Financial Services				
Insurance				
Food & Beverage				
Retail				
Education				
0%	5%	10%	15%	20%

2019 Proofpoint. All rights reserved 17

# Deep Data Dive: Get to Know Your VAPs



# Regularly review your Very Attacked People™ so you can:

- ➤ Identify who is being attacked and how attackers are attempting to compromise them
- Address threats with greater certainty
- Identify potential attack trends
- Make more informed decisions about your training approach
- Deliver the right training to the right people at the right time





# **Key Takeaway: Focus on Actionable Data**

Use our report to guide you

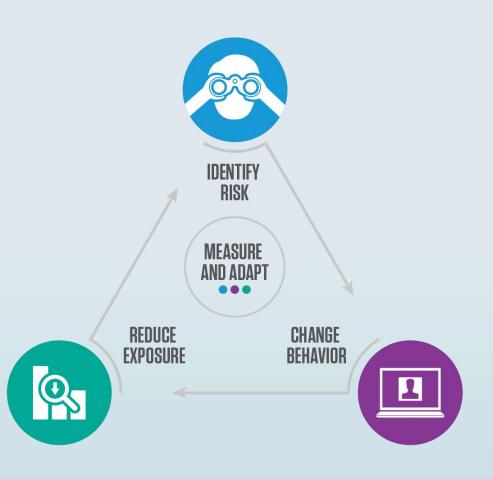
## The Goal: Putting It All Together



20

# Combination of four key activities:

- > Identifying risk
- > Changing behavior
- > Reducing exposure
- Measuring and adjusting

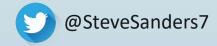






Speaker
Steve Sanders
Vice President of Internal Audit

Steve is an experienced cybersecurity and audit expert who specializes in helping board members and senior management excel in risk oversight. He as an educational background in computer security and data protection, and he possesses more than 15 years of audit experience with a focus on information security, privacy, and cybersecurity. Steve has extensive experience with corporate governance and regulatory oversight. He holds the following certifications: Certified Information Security Auditor (CISA), Certified in Risk and Information Systems Control (CRISC), and Certification in Risk Management Assurance (CRMA)





www.issa.org

# **Phishing Psychology**

### The CHALLENGE



That's a fool's game to think that every situation will yield to the same tactic or strategy. We have to assess every situation in terms of what's truly available for us there.

~ Robert Cialdini



Don't focus your motivation on doing Behavior X. Instead, focus on making Behavior X easier to do.

Three realities of security awareness:

- 1) Just because I'm aware doesn't mean that I care.
- 2) If you try to work against human nature, you will fail.
- 3) What your employees do is way more important than what they know.

### **KNOWLEDGE-INTENTION-BEHAVIOR GAP**



When it comes to the human side of security, you must treat the knowledge-intention-behavior gap as a fundamental law of reality that affects any behavior your hope to encourage or discourage.

~ Perry Carpenter, 'Transformational Security Awareness'





### Knowledge

The mental understanding of what needs to be done and why it needs to be done.



#### Intention

The desire to do the right thing – or the wrong thing!



#### **Behavior**

The ultimate outcome: your actions.

### INFLUENCE & PERSUASION



- "All the weapons of influence [...] work better under some conditions than others. If we are to defend ourselves adequately against any such weapon, it is vital that we know its optimal operating conditions in order to recognize when we are most vulnerable to its influence."
- ~ Robert Cialdini, 'Influence'.



#### Reciprocity

People feel an obligation to give back when someone first gives to them (Quid Pro Quo).



#### **Scarcity**

People want what they cannot have.



#### **Authority**

People follow the lead of 'experts', whether real or imagined.



#### Consistency

People want to honor their commitments.



#### Liking

People want to say yes more to those people they like.



#### Consensus

People want their actions to be in line with the actions of others.





# Speaker Paige Yeater Director of Information Security Program Management Mainstay Technologies

Paige is the Director of Information Security Program Management at Mainstay Technologies. In this role, she works with clients across many industries, of many sizes, supporting their Information Security Programs.

With an MBA from The Citadel, and close to 20 years of experience in training, client operations and program management, she works to align business operations with Security and Compliance requirements. Most of her time is spent working with clients to educate them on their security risk and compliance requirements, and to align their business processes with a strong security posture. Her love of a well written policy has proven to be beneficial in this role!

Paige leverages her time in the training field to work with clients on their training and awareness programs, to ensure that their staff is well educated, aware and alert, and can help protect the organization from Security threats.



www.issa.org

# **Corporate Culture & Phishing**

### Where to start



- ➤ Awareness What to Know
  - ☐ Understanding the threat
  - ☐ Where it might come from
  - ☐ The impact it may have
  - Ongoing Discussion
- ➤ Training What to do
  - ☐ How to Identify a phishing email
  - ☐ What to do if you get one
  - ☐ How to report them
  - ☐ Test, Retest, Support





### **Meet Joe**



Misspellings, Phishy Links,
Request for information,
odd delivery times, spoofed
addresses, odd requests,
sense of urgency ... are all
signs of a potential phishing
email







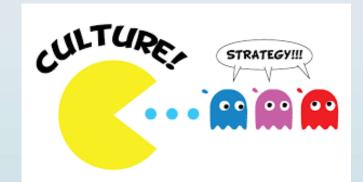
https://www.shutterstock.com/search/happy+employee+cartoon

ISSA International 29

## Things to Consider



- ➤ What is your email Culture?
- > Is there a belief that IT will prevent Phishing?
- > Are there formal procedures for key processes?
- "Can you do me a quick favor?"
- > Are there guardrails in place?

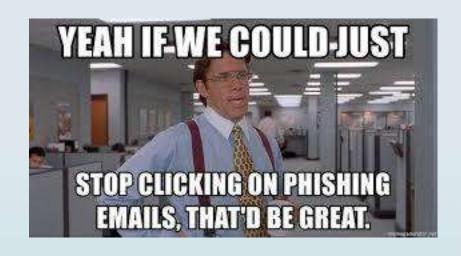


➤ Does your culture offer a "Safe Space"?

### **Next Steps**



- Assess your culture and its possible impacts
- ➤ Align it with your training and awareness programs
- ➤ Stay Safe out there friends!





www.issa.org

# QUESTIONS?