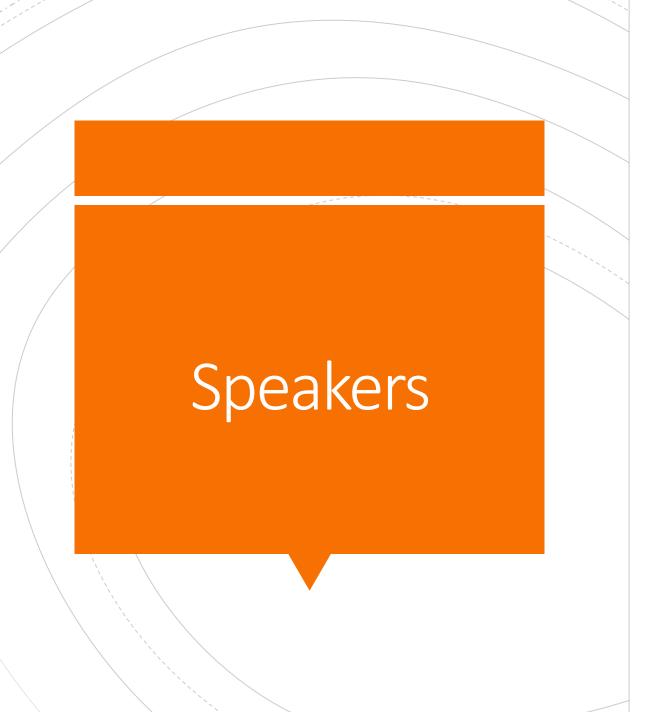


How spear phishing and BEC attacks require a full-lifecycle approach to email security





Paul Roberts, Editor in Chief **the security ledger**



Kevin O'Brien, CEO

GreatHorn



- 2:00 2:05 Introductions, housekeeping
- 2:05 2:15 BEC attacks: state of the art
- 2:15 2:30 Full Lifecycle Approach
- 2:30 2:45 Developing Business
 Processes to Minimize BEC Risk
- 2:45 3:00 Question and answers







- Definition of Business Email Compromise
 - Common characteristics
 - Who is targeted
- What BEC attacks matter
 - 90% of breaches begin with targeted email attack
 - Links to other threats malware, account hijack, data/IP theft, etc.
- Examples of recent BEC attacks



Why Are We Talking about Email Security in 2019?





The Proof: BEC
Threats Still
Working



1 in 5

security professionals have to take direct remediation action at least weekly



BEC Threats

From: Google < no-reply@accounts.googlemail.com >;

Date: March 19, 2016 at 4:34:30 AM EDT

To: john.podesta@gmail.com

Subject: Someone has your password

Hi John

Someone just used your password to try to sign in to your Google Account

john.podesta@gmail.com.

Details:

Saturday, 19 March, 8:34:30 UTC

IP Address: 134.249.139.239

Location: Ukraine

Google stopped this sign-in attempt. You should change

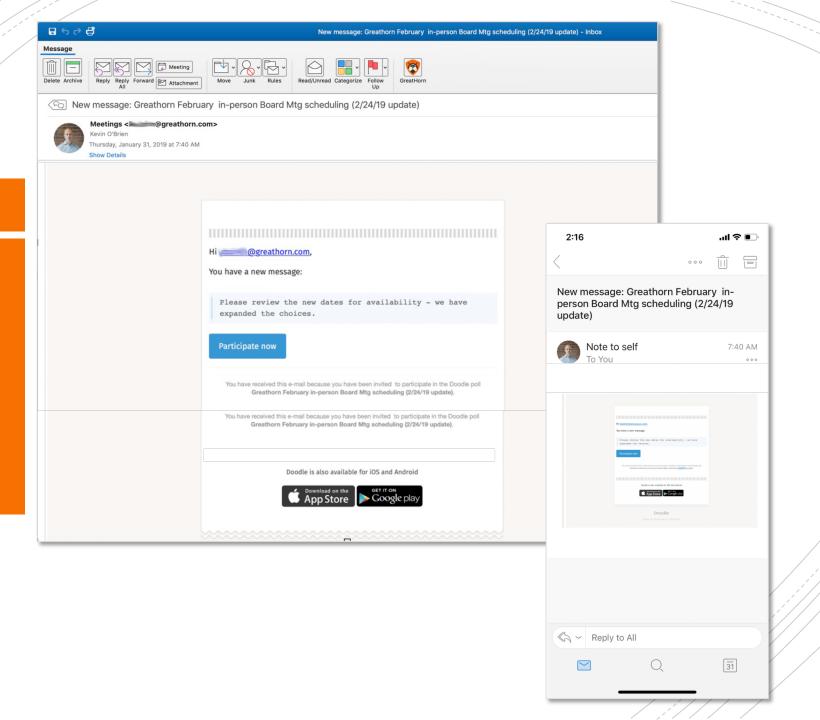
your password immediately.

CHANGE PASSWORD < https://bit.ly/1PibSU0>

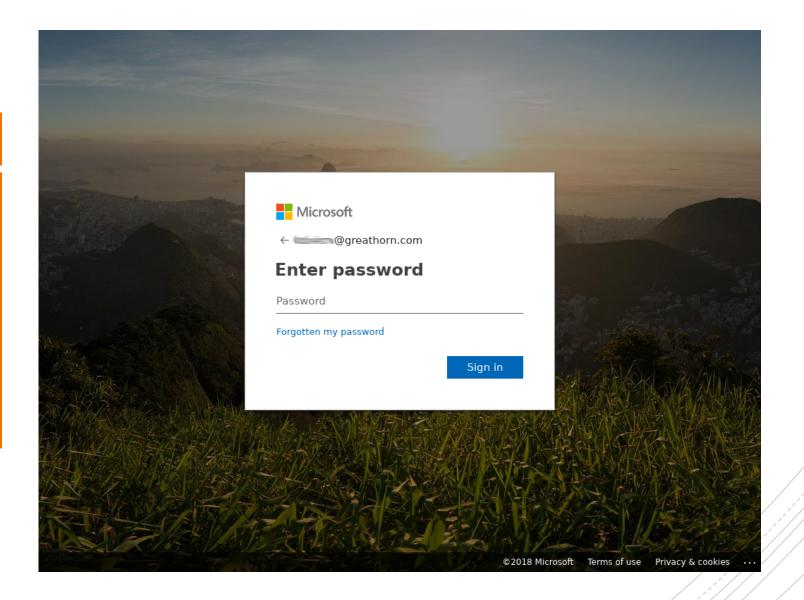
Best,

The Gmail Team

Real Executive Attack



Real Executive Attack





- Role of threat intelligence in email security
- Where threat intelligence works
 - Links to malicious infrastructure
 - Suspicious/malicious content
 - Campaigns
- Where threat intelligence falls short
 - Social engineering attacks
 - Insider threats
 - Compromised infrastructure
 - Account Takeover (ATO)
 - "Unknown Unknowns"



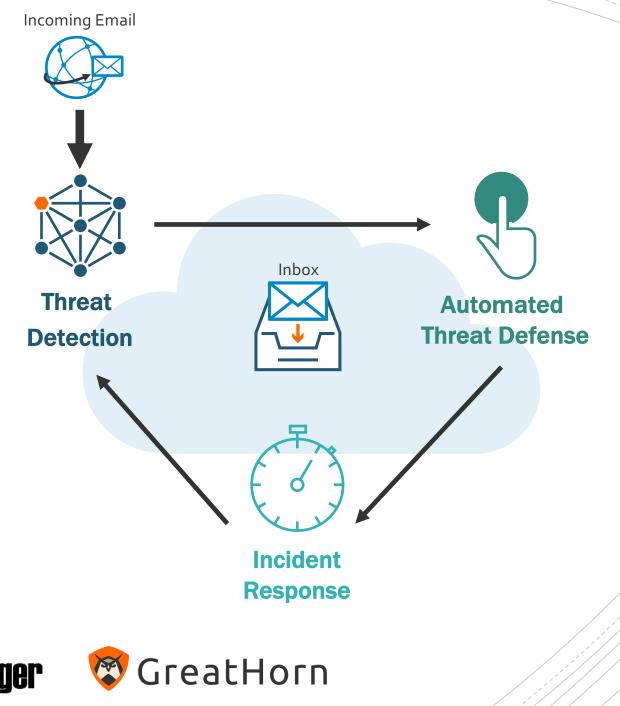
Full Lifecycle Email Security Why BEC attacks demand a new approach to email security.

Toward Full Lifecycle Email Security – Where We Came From

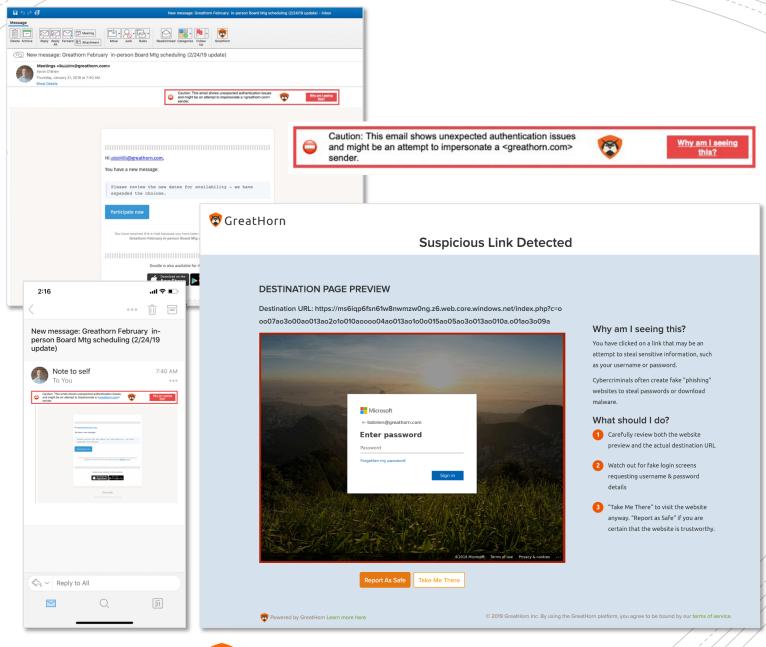
- Historically, email security about up front spam, malware detection
- Focus was on border checks
 - Focus on malicious applications rather than social engineering
 - Few options for threats that passed border checks
- Noisy vs. low & slow attacks
- False positives and false negative are problems



What is Full Lifecycle Email Security?



Contextualized User Protection

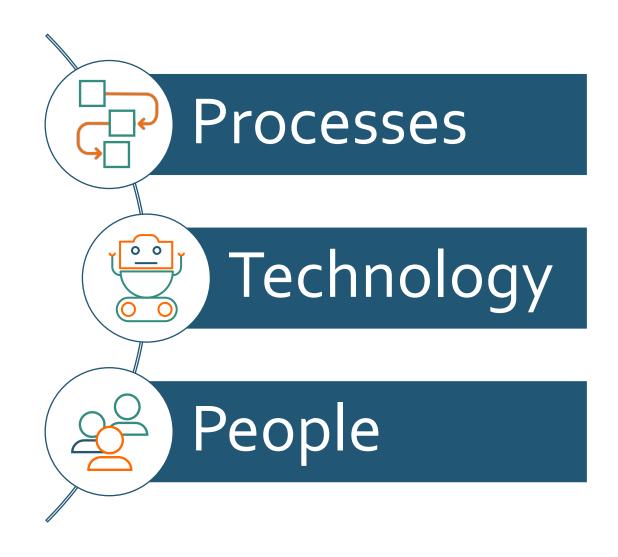








Tech is Just One Part of an Effective Strategy

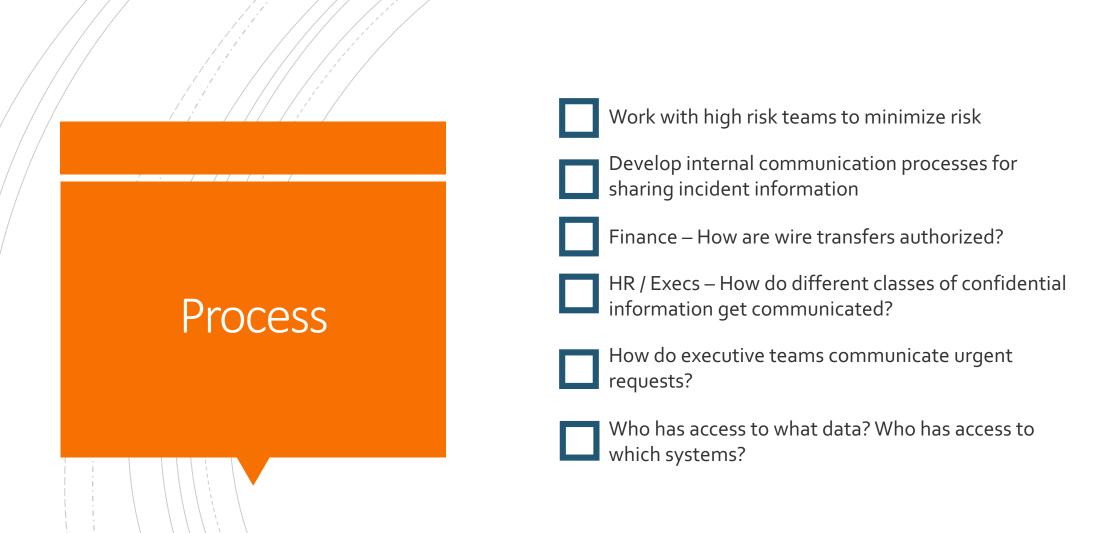




Operationalizing Email Security

- Focus: identify and prevent email risks
- Goal: prevent successful attacks (vs. prevent/block all attacks)
- Block when possible, close detection window otherwise

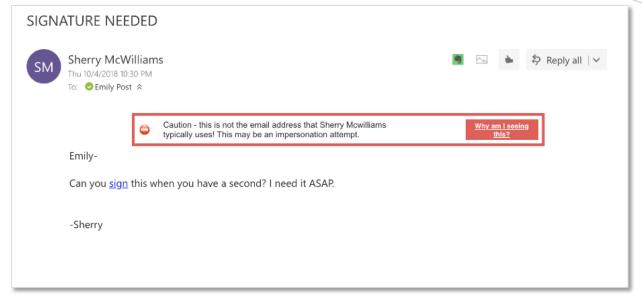


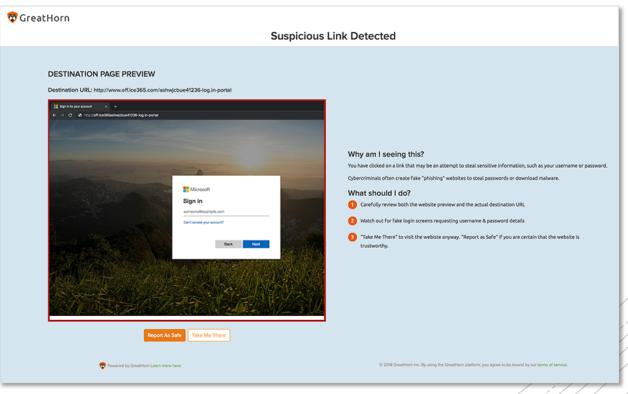




Operationalizing Email Security

Technology Reinforces Process





Operationalizing Email Security at the User Level

- Involve users in detection & remediation
- Provide administrators with tools to rapidly respond to incidents
- Feed lessons learned back into detection process





Operationalizing Email Security

How to reduce email security risk at your organization.

