

Agenda

- Proofpoint/Change Champions Who Are We?
- Latest Global Threat Landscape Overview
- Mr. Potato Head!!!
- What Do They Want From Me?
- Recommendations To Stay Safe





proofpoint. Overview

The leader in protecting people from advanced threats and compliance risk

The most trusted partner to protect the leading threat vector

#1

Most deployed solution for the Fortune 100

#1

Most deployed solution for the Fortune 1000

#1

Most deployed solution for the Global 2000



Gartner Leader Sim &Training

Unparalled visibility into Phishing Threats



128 of 144 Global ISP's

Consumer Email visibility

Seamless integration with other next gen leaders















Security Awareness Programs



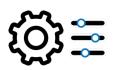
Award-winning programs

Our cybersecurity awareness programs have received awards and are used by some of Canada's and the world's leading organizations.



Experts in change.

We are a team of change managers, communication experts, organizational psychologists, and trainers with a particular interest in IT security. Behavioral change is where we live.



Customization that works

We know that each client is unique, which is why we tailor our program to meet the different needs of your organization.



Proven approach and cost-effective option.

Our repeatable approach and experience allow us to onboard fast and have your program off the ground in a matter of weeks and with less than one FTE of effort.

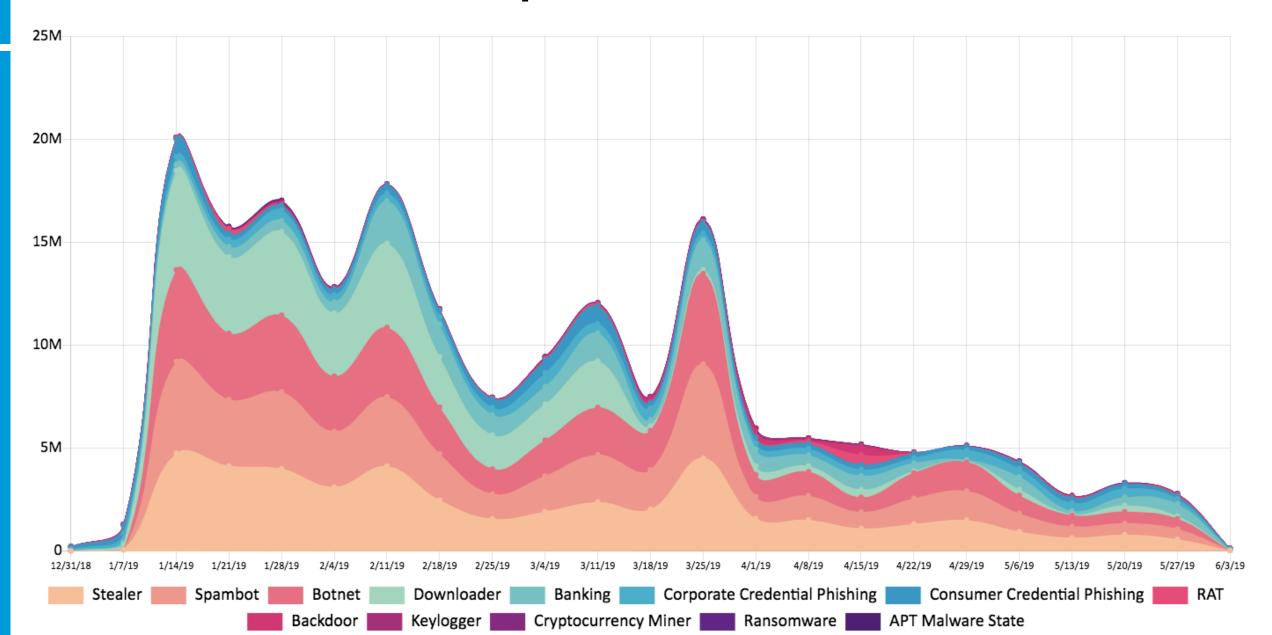




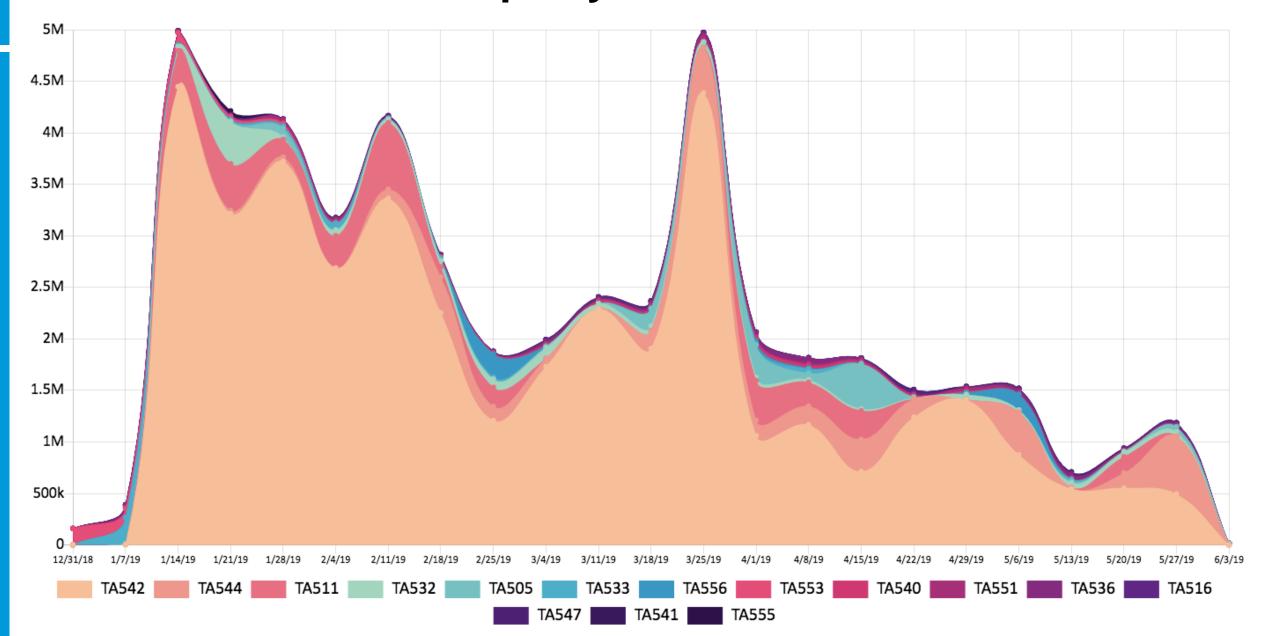
Global Threat Trends



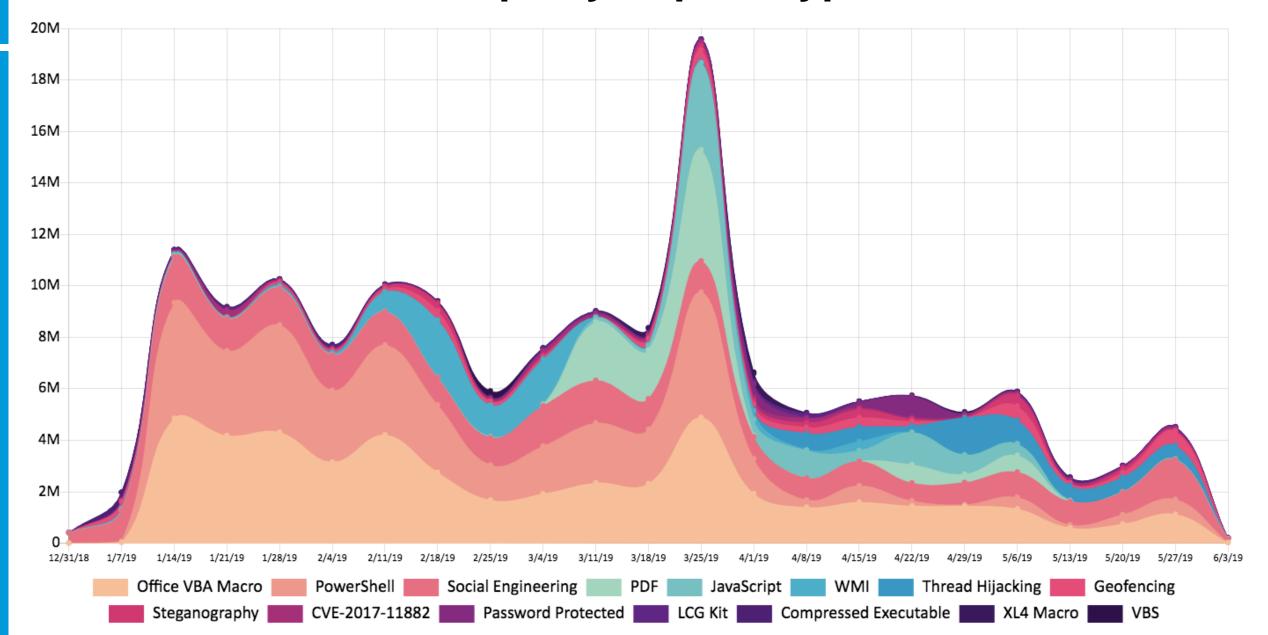
Global Threat Landscape



Email Threat Landscape by Actor



Email Threat Landscape by Exploit Type





Attacks increasingly target people, not infrastructure

THREATS USE SOCIAL ENGINEERING, NOT VULNERABILITIES SHIFT TO CLOUD CREATES NEW THREAT VECTORS, DATA EXPOSURE

EMAIL FRAUD IS A BOARD-LEVEL ISSUE

O

99%+

Malware attacks rely on user to run malicious code



Account takeover of cloud apps is a growing problem



\$12.5B+

1

300%+

Increase in corporate credential phishing

63%

Orgs exposed to targeted attacks

37% Orgs of succe

Orgs detected successful breach

Direct losses worldwide (Oct 2013–May 2018)

78,617

Incidents worldwide

Source: Proofpoint Threat Data.

Source: Proofpoint Threat Data.

Source: FBI.

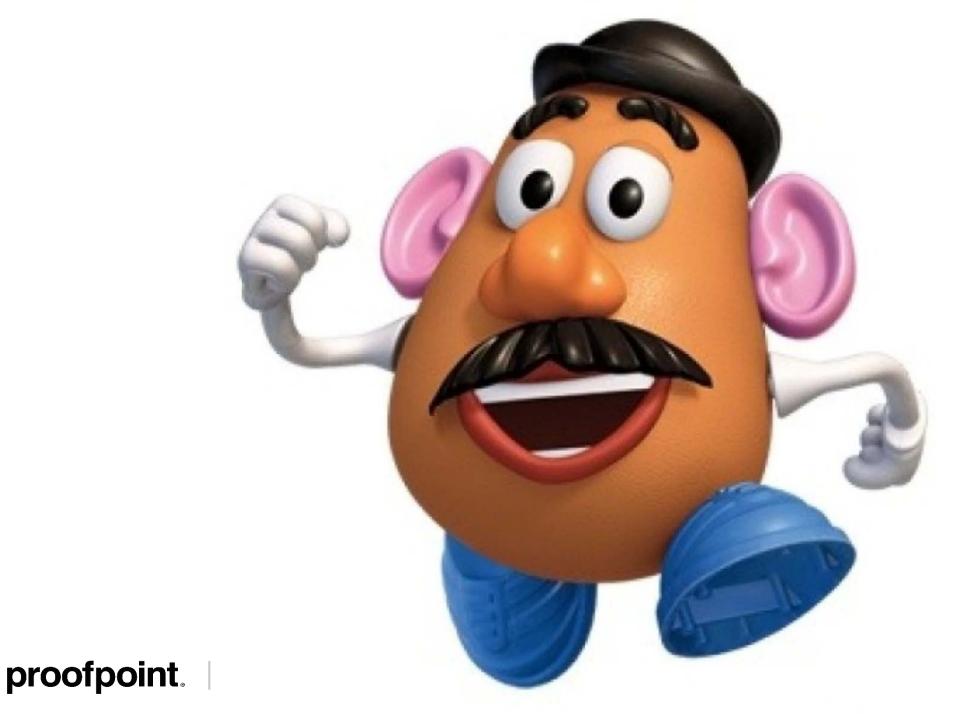




Attack Structures....

























Malicious Website



Stolen Credentials

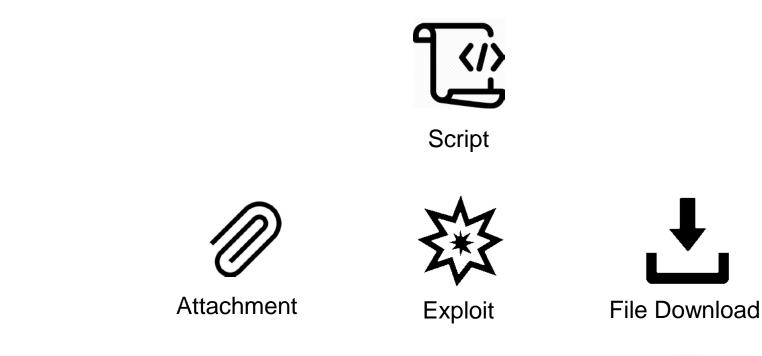


Malware







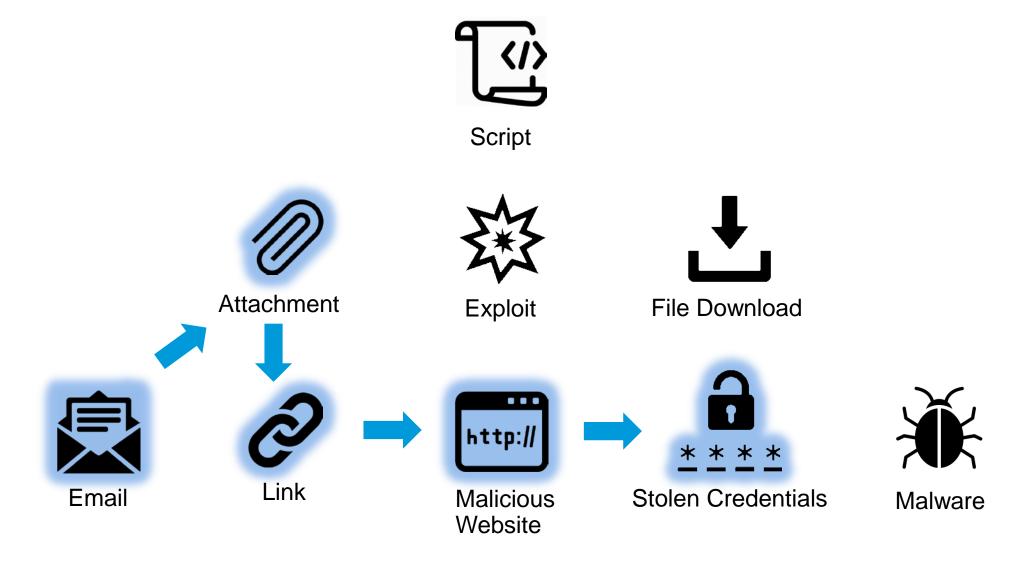








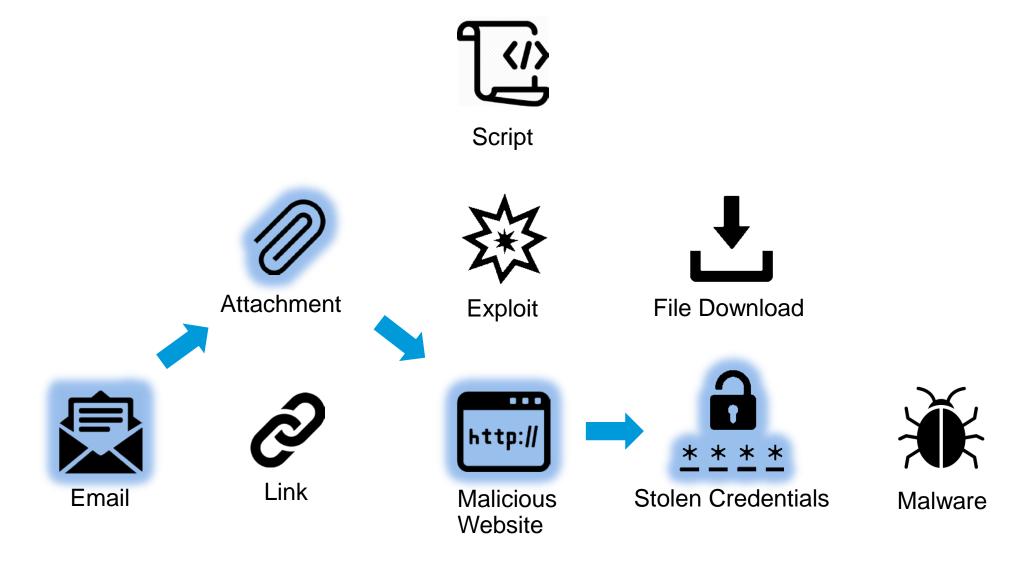






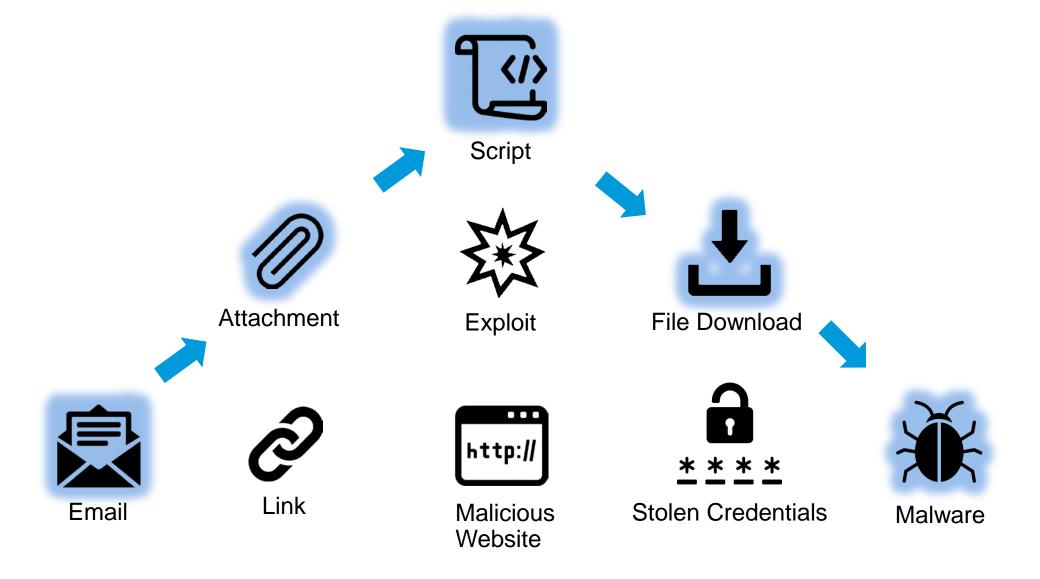








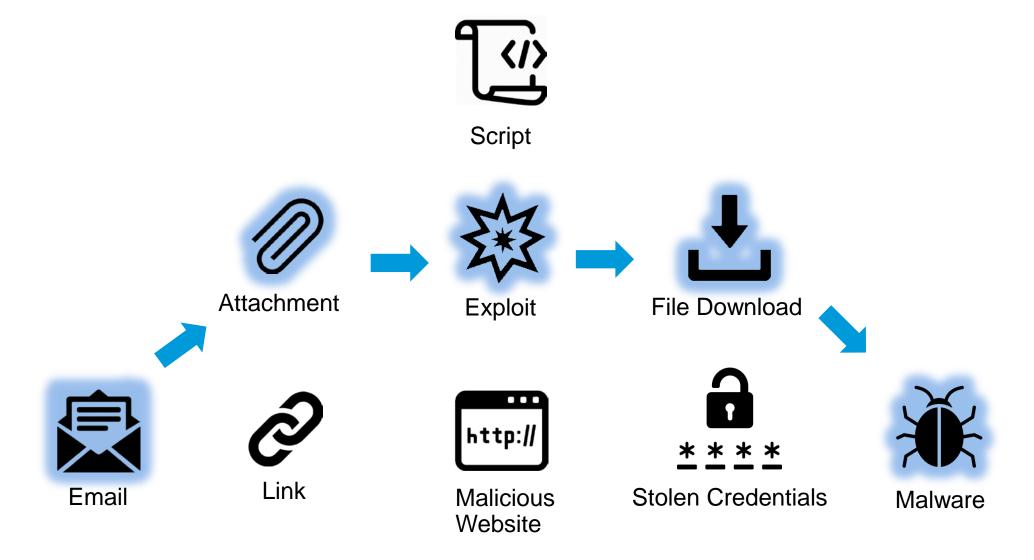








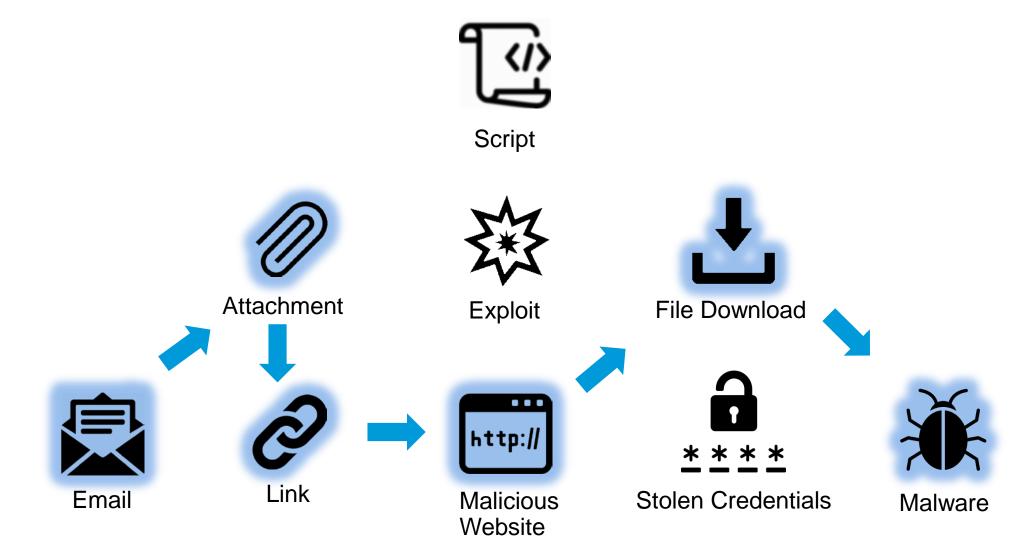






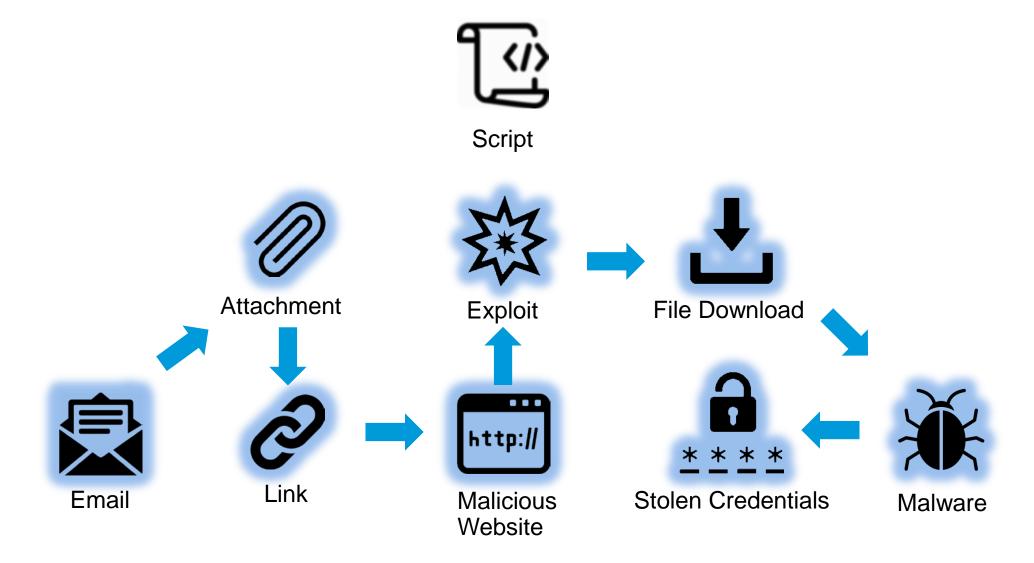






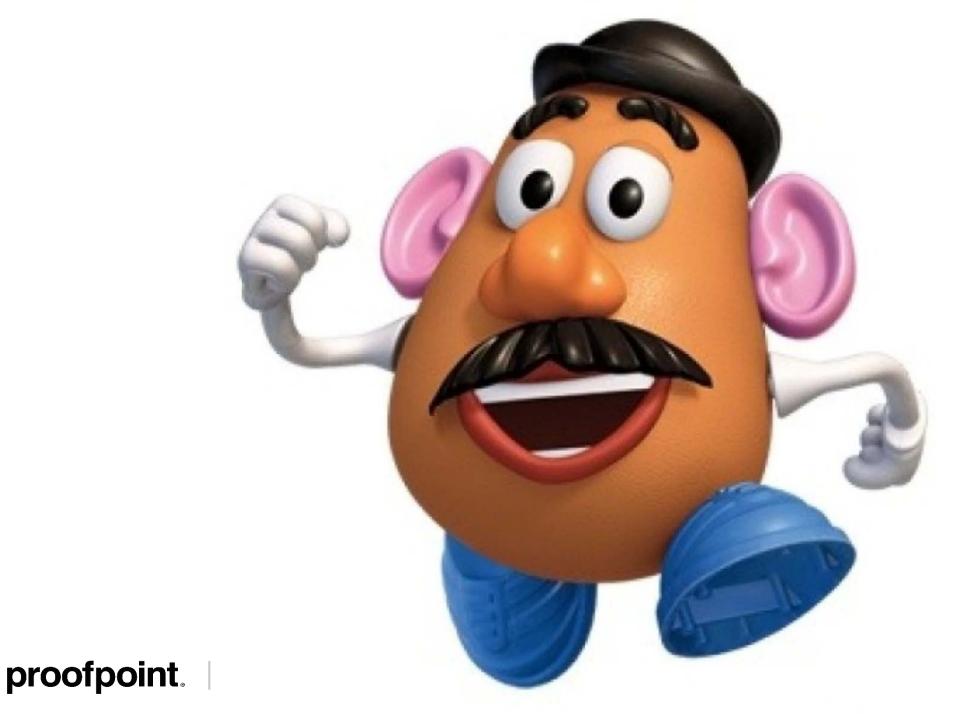














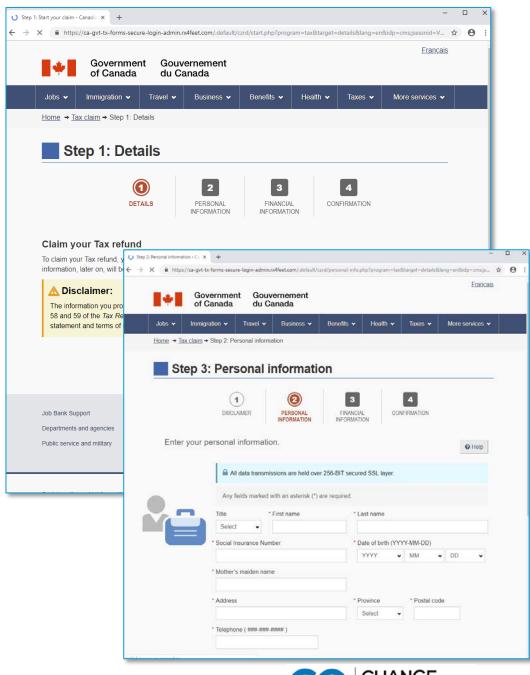
What do they want....



Canada Targeting

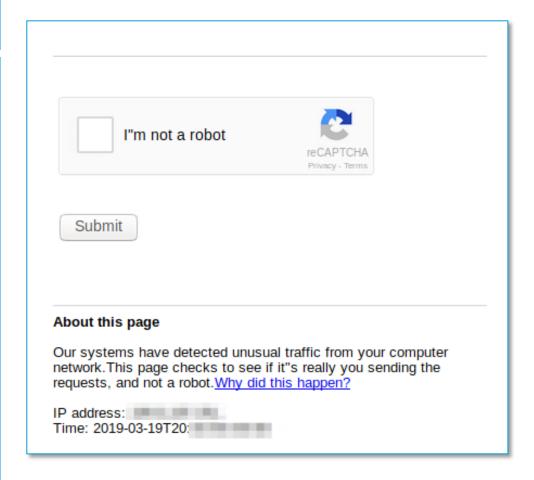
- · Actors Targeting Canada
 - TA516 [SmokingDro]
 - · Very diverse actor who uses a variety of malware with pretty rudimentary tactics
 - · Has recently been delivering Remocs
 - Exclusively using Password Protected docs since Augus
 - TA564 [Captain Cha]
 - · Originally found them targeting Poland, its been all Canada since March
 - · Performs Geogating
 - Delivered Nymaim to Poland and Danabot to Canada
 - TA543 [Sagrid]
 - General Spammer/Trafficker
 - Deals in Ransomwares, Bankers, Loaders
 - TA545 [AirCanada]
 - · Mainly targets Canada, sometimes Australia
 - · Mainly delivers Stealers ZeroEvil and ARS this year
 - Seen delivering Meterpreter, QuesarRAT, AZORult, Panda Banker
- Targeted Brands
 - AirCanada
 - Bank of Montreal
 - Canada Post
 - Coast Capital Savings
 - Interac
 - Royal Bank of Canada
 - Government of Canada

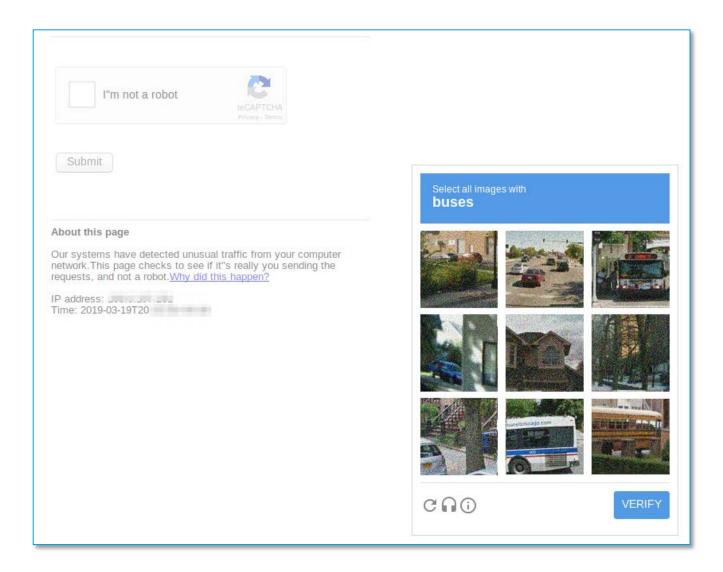






TA564



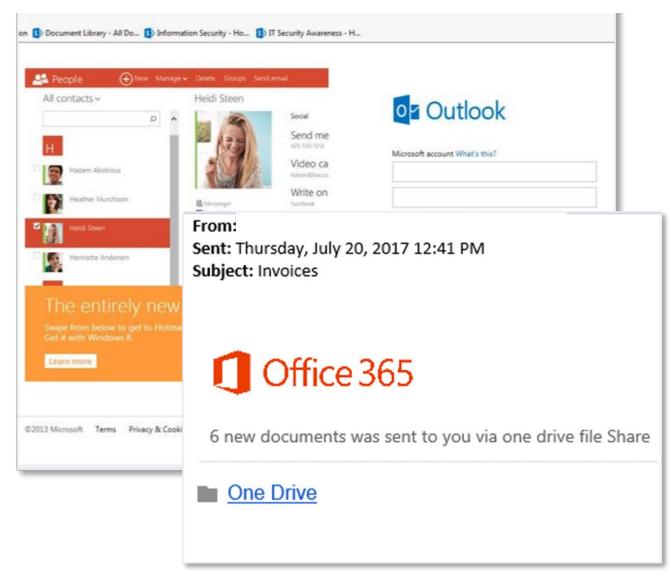






Credential harvesting

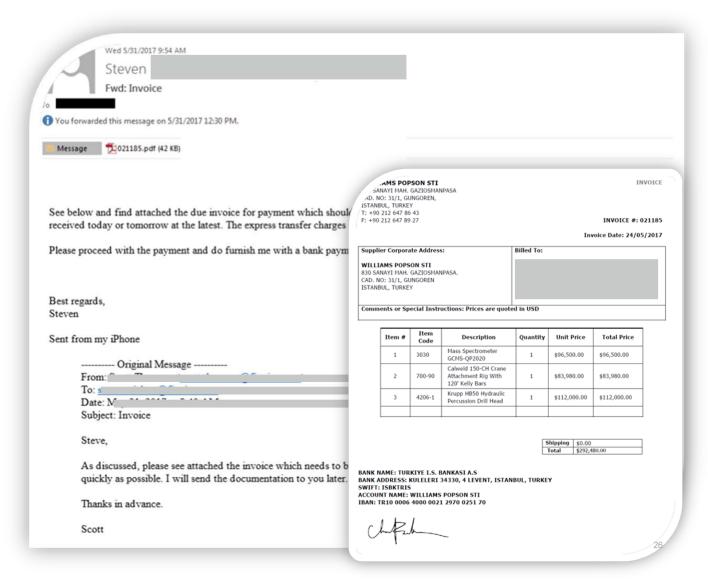
- A single employee disclosing username and password was enough to spread the attack
- With access to our customer's user accounts, the attackers sent several massive phishing attacks from the compromised accounts making it harder for employees to recognize the attack since it was coming from a "real" email address
- The attack then spread through our environment





Spear-phishing

- Targeted phishing attempt carefully designed to trick the regional VP Finance to execute on a payment from on behalf of customer "CEO"
- Customer domain spoofed to look very similar to customer email address and use of real emails
- Invoice had accurate details and email chain created a compelling story
- Attack could have costed our customer USD 292,000





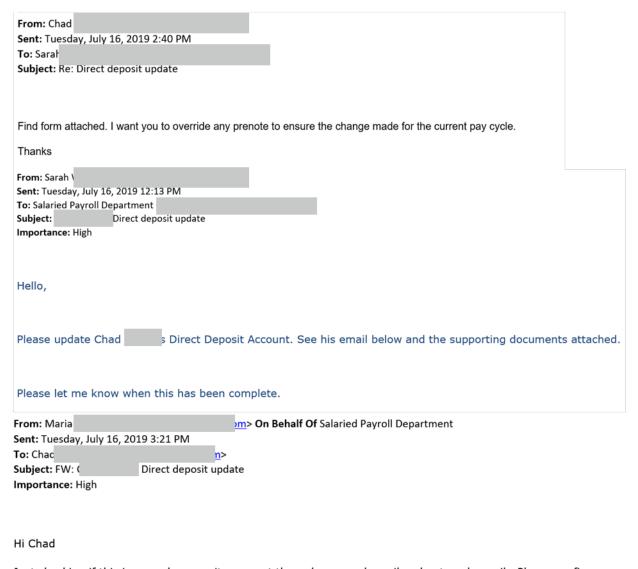




Payroll scam

- Attempt to get payroll at customer to change "employee" direct deposit account
- Email sent from "employee's" personal email to HR manager and, indirectly, to payroll administrator
- Employee happened to be a general manager

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Recommendations





Be cyber-aware

- Security is no longer just about technology
- We all have an important role in securing our personal and work-related data







Protect your inbox

- Beware of senders you don't know
- Hover over links before clicking
- Don't open attachments
- Report suspicious email

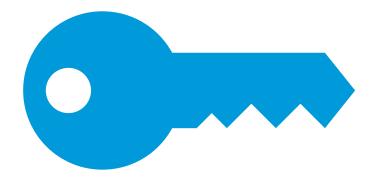






Protect your identity

- Make your password difficult to guess – passphrases are a great option
- Consider a password manager (LastPass, Password Safe, and KeePass are some options)
- Enable multifactor authentication

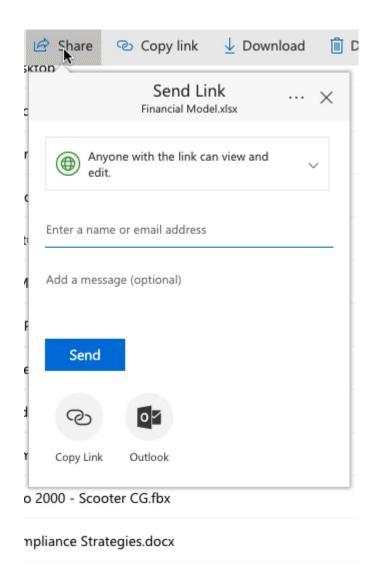






Protect your information

- Don't use USBs or other external devices
- Leverage cloud storage solutions when possible
- Manage permissions and expiration date







Protect your device

- Check with your internet provider for free firewall and antivirus
- Ensure all software is up to date
- Limit data tracking
- Back up your data





