Presented by
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IT Security in the Workforce

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Presenters

Matt Jones
Chief Solutions Officer
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Kyle Raupach
Security Officer
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STRATEGY — UNIFIED SOLUTIONS — RESULTS

If your company is going to maximize the business value of its investments, your first and most important job just might be to eliminate as many islands of data and silos as you can find.

Interconnections and interdependencies of software, teams, and services make it clear, that for your business to be of maximum value, it must be Unified.

Agenda

- Software Protection
- Policy Implementation
- Hardware Protection
- User Education
- Q&A

Goal

Educate on the security stack in order to protect business, reduce hacking and provide brief compliance education.

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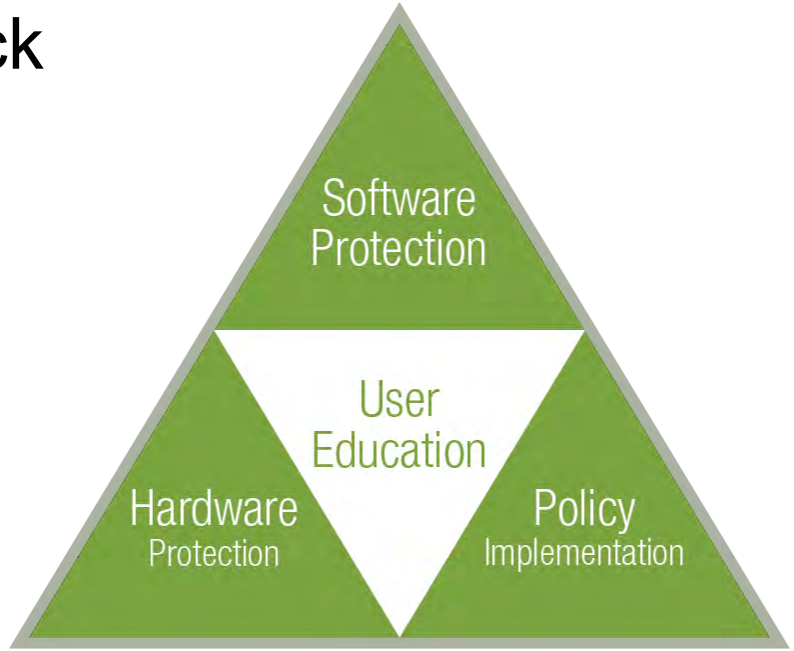
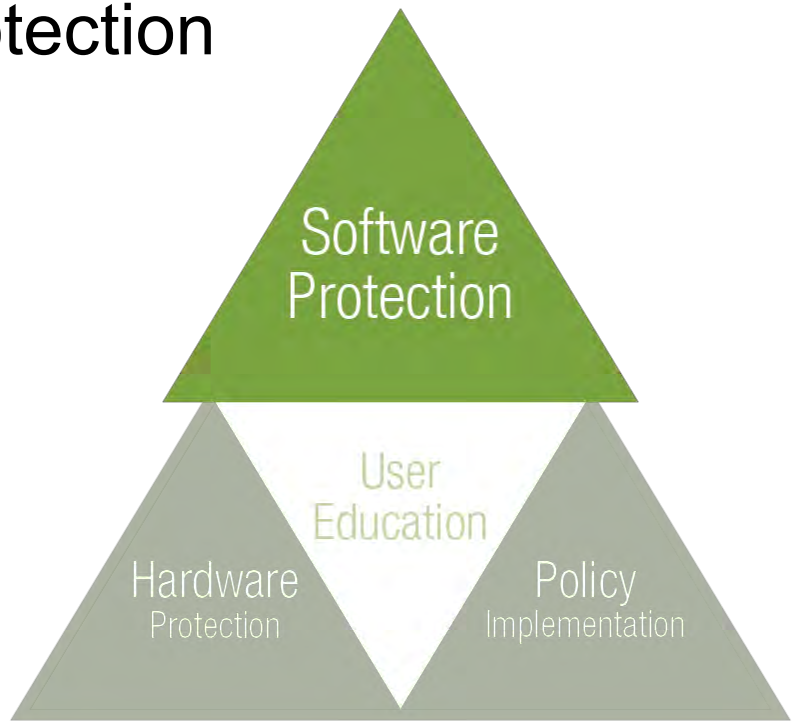
COVID and Cybercrime

- RDP Brute Force attacks increased by 400%
- COVID email scams surged by 667% in March alone
- Users are 3x more likely to click on pandemic-related phishing scams
- Tens of thousands of new COVID related domains created daily – 90% of these are scams
- More than 530,000 Zoom accounts sold on the dark web
- 2000% increase in malicious files with “Zoom” in the name
- 105% spike in ransomware attacks

IT Security Triangle Stack



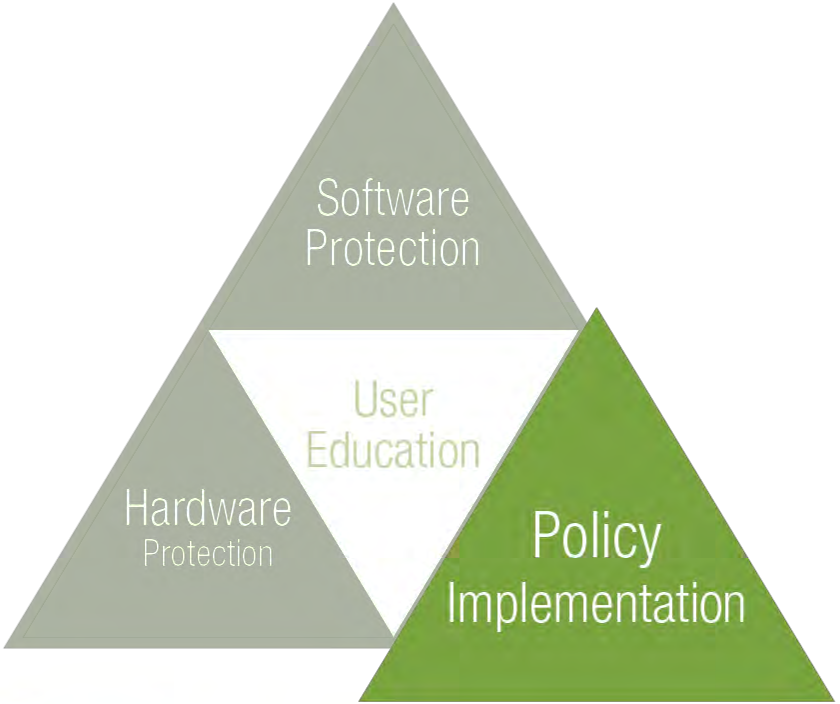
Software Protection



Software Protection

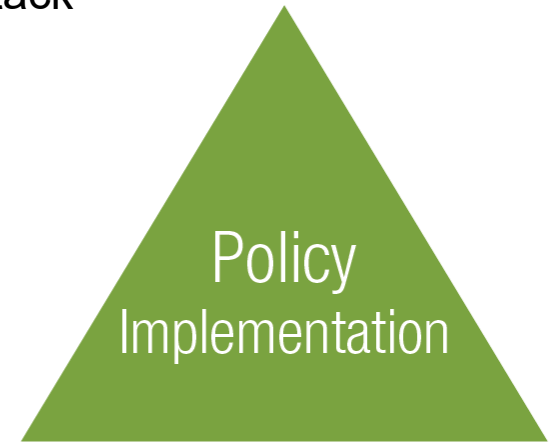
- Anti-Virus/Anti-Spam – MUST HAVE
- Risk assessments
- Multi-Factor Authentication
- Penetration tests
- Patching
  - Windows Updates
  - Other software updates
- Website Protection
  - Security monitoring
- Backups

Policy Implementation

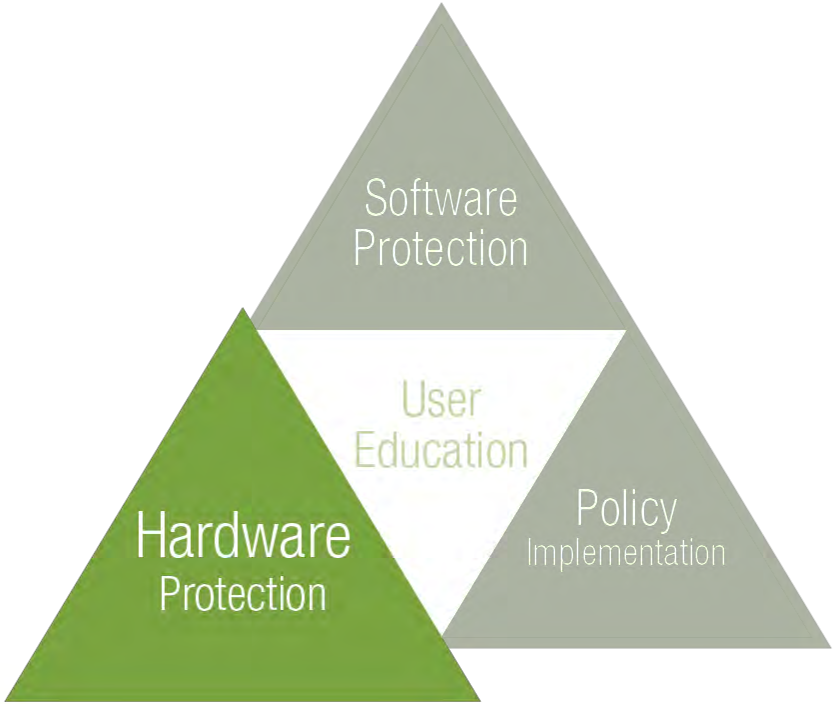


Policy Implementation

- Incident prevention & response
- Measures and policies that can prevent an attack
  - Password protection
- Responses to attacks
- Technology usage policies
- Written and defined in handbook
- Reviewed and signed off by employees
- Compliance requirements



Hardware Protection



Taking your business from **Thought to Thrive**®
OPERATIONS IT MARKETING SALES SECURITY
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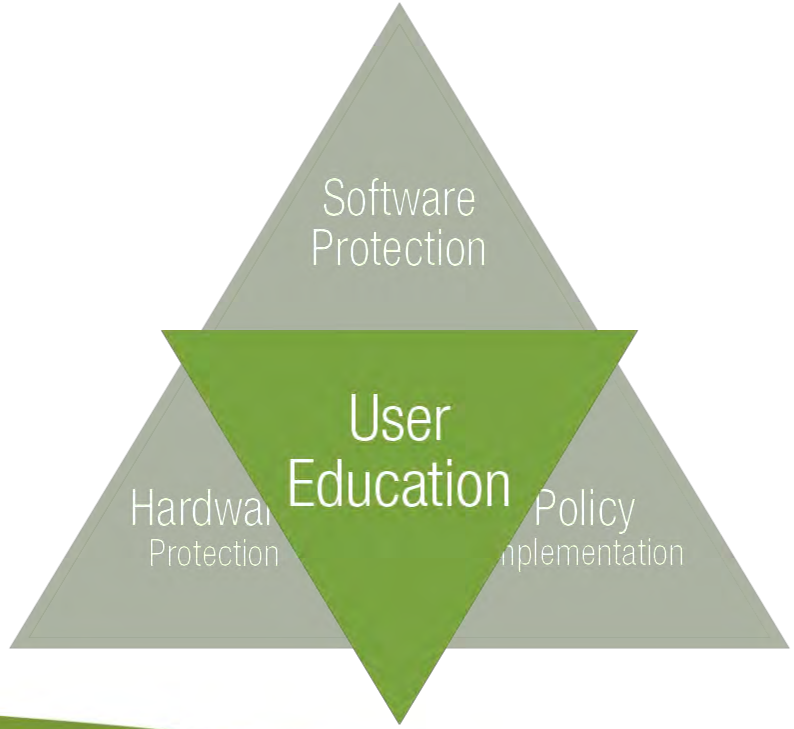
Hardware Protection

- Keeping hardware up to date
  - Reduce risk of hacking
  - Reduces risk of failures
- Strategic hardware purchases that align with your business and security goals

User Education



User Education

Without user and employee education, nothing ties together

- Train employees to recognize phishing attacks & other spam attempts
- Instruct employees on what to do after an attack
- Train employees on what NOT to do
- TEST!!!

User Education — Let’s Train

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Definitions

Cyber Security

The state of being protected against the criminal or unauthorized use of electronic data or the measures taken to achieve this (Oxford definition)

Cloud

A technology allowing access to files or services through the internet

VPN (Virtual Private Network)

A tool that encrypts traffic usually allowing remote access to a company network

Definitions

Firewall

A hardware or software that is designed to block malicious traffic

Malware

Any and all software designed to inflict digital harm on a computer

Ransomware

A form of malware which “locks” files preventing them from being access without the proper key. Files will be held unless a ransom is paid

Definitions

Social Engineering

A technique in which a person or software manipulates people to give out sensitive information.

Phishing

The sending of fake emails that appear to be from someone they are not. This can be a reputable company (Microsoft) or your CEO or CFO

Man in the Middle Attack

This usually occurs on an unsecure public wifi network where an attacker interrupts traffic to insert malware

Definitions

Zero-Day Exploit

This is a vulnerability exploited in the form of malware in which there is no patch or fix in which attackers will target

Multi-Factor Authentication (MFA)

A multiple step (usually 2) authentication method for gaining access to a site or software.

Something you have, something you are and something you know.

User Education — Examples
Phishing
What to Look for

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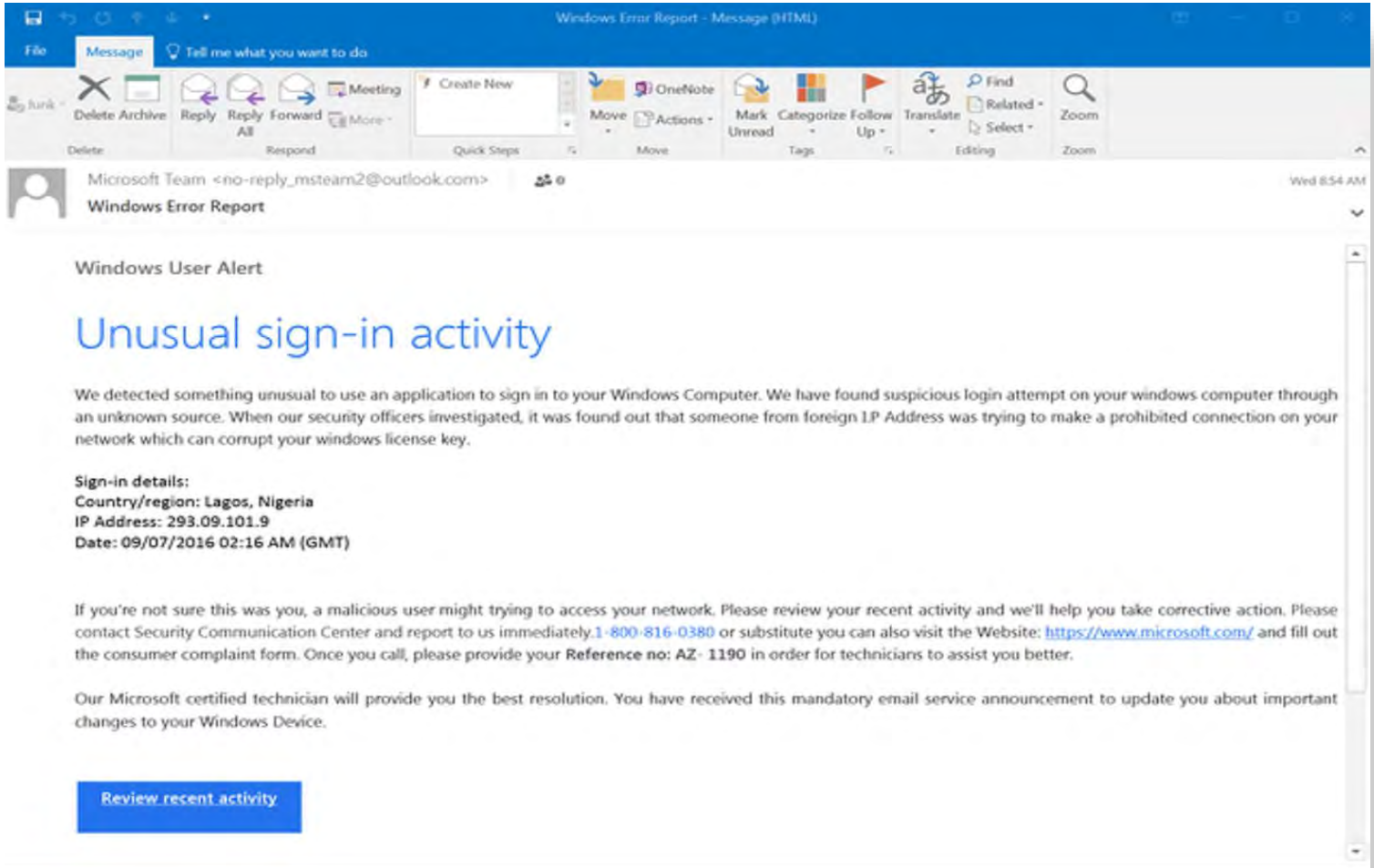

Windows Error Report - Message (HTML)

File | Message | Tell me what you want to do

Delete | Archive | Reply | Reply All | Forward | Meeting | More | Create New | Move | OneNote | Actions | Mark Unread | Categorize | Follow Up | Translate | Find | Related | Select | Zoom

Microsoft Team <no-reply_msteam2@outlook.com>

Wed 8:54 AM

Windows Error Report

Windows User Alert

Unusual sign-in activity

We detected something unusual to use an application to sign in to your Windows Computer. We have found suspicious login attempt on your windows computer through an unknown source. When our security officers investigated, it was found out that someone from foreign I.P Address was trying to make a prohibited connection on your network which can corrupt your windows license key.

Sign-in details:
Country/region: Lagos, Nigeria
IP Address: 293.09.101.9
Date: 09/07/2016 02:16 AM (GMT)

If you're not sure this was you, a malicious user might trying to access your network. Please review your recent activity and we'll help you take corrective action. Please contact Security Communication Center and report to us immediately.1-800-816-0380 or substitute you can also visit the Website: https://www.microsoft.com/ and fill out the consumer complaint form. Once you call, please provide your **Reference no: AZ- 1190** in order for technicians to assist you better.

Our Microsoft certified technician will provide you the best resolution. You have received this mandatory email service announcement to update you about important changes to your Windows Device.

Review recent activity

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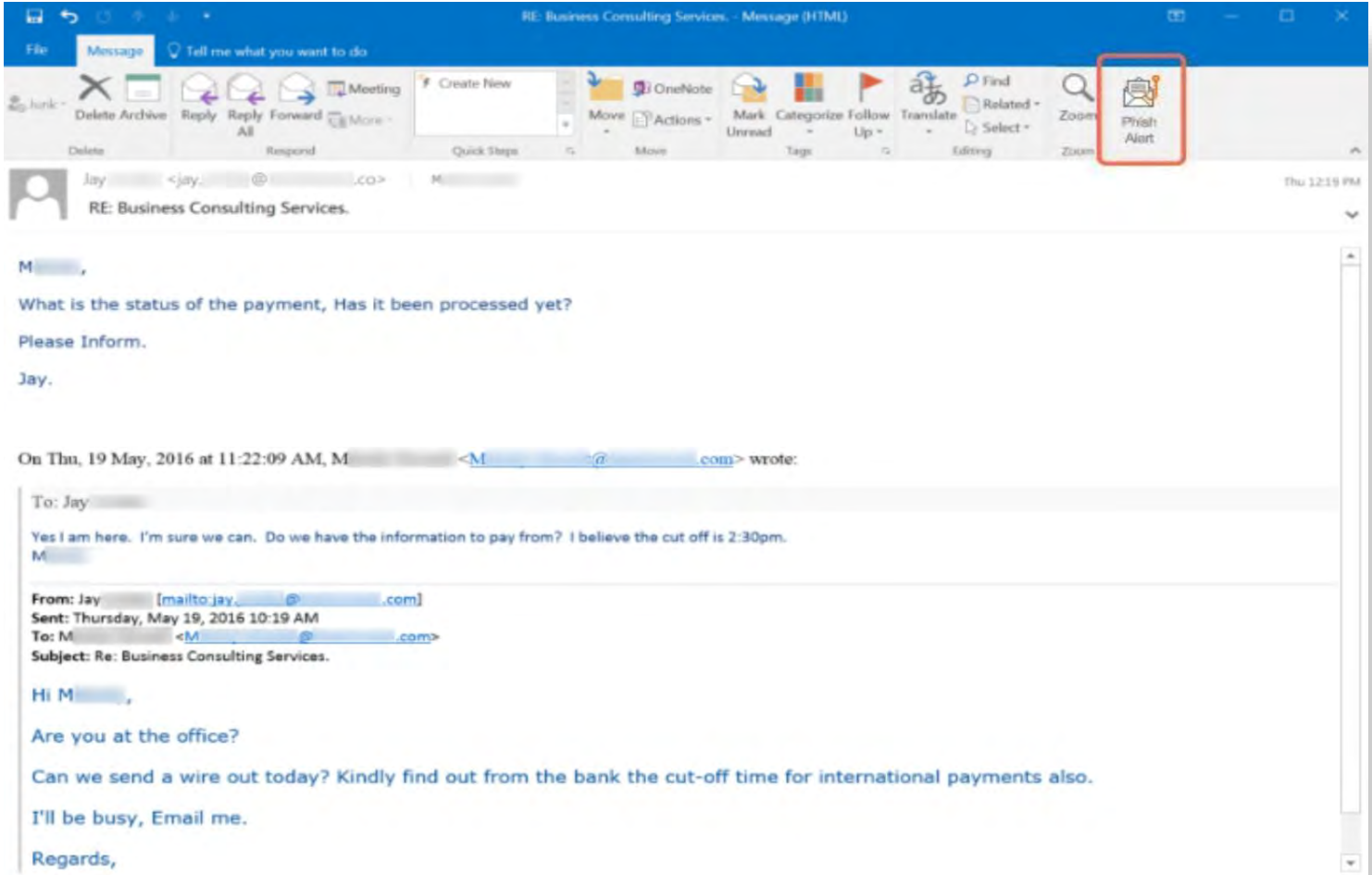

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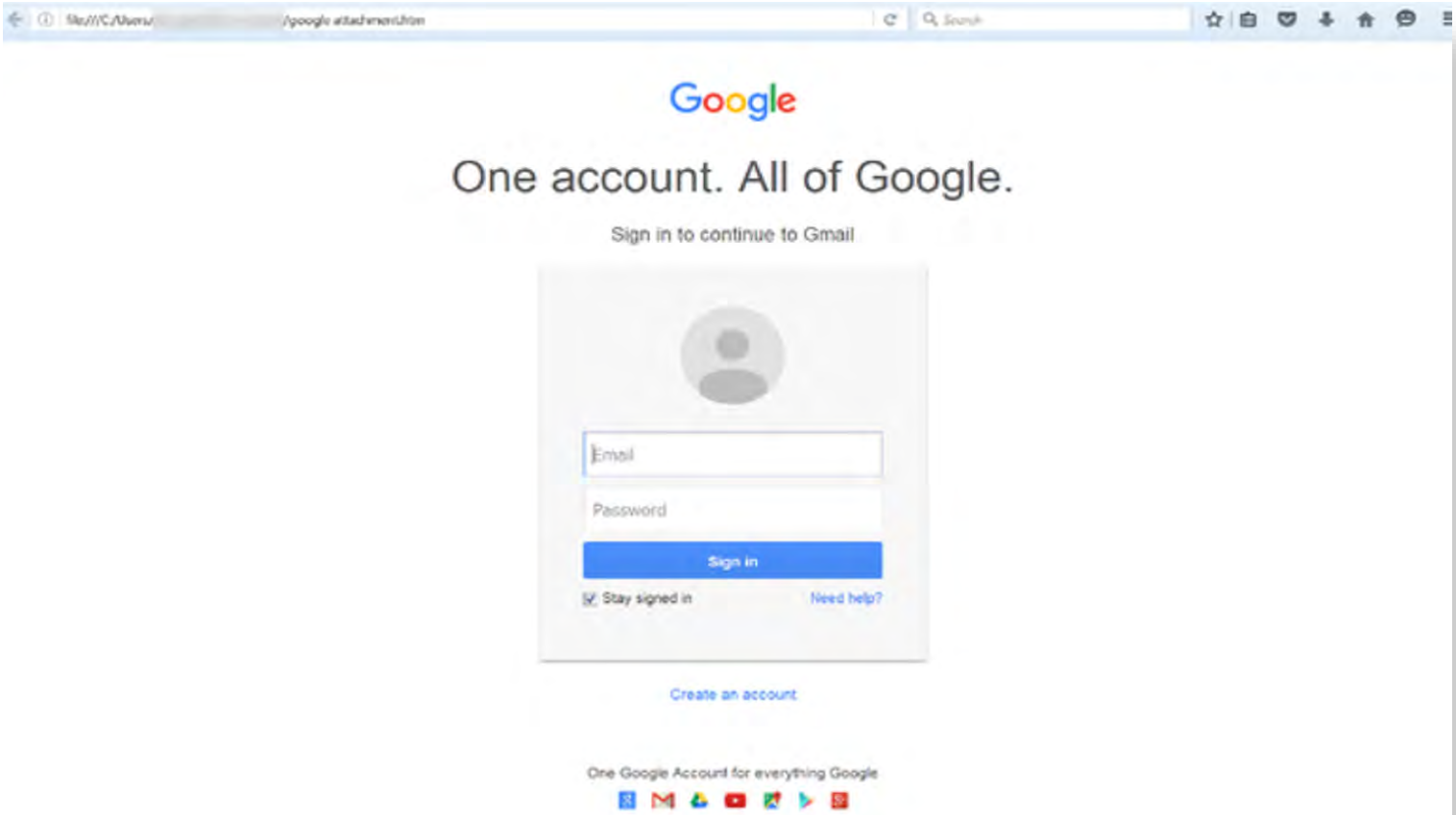

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User Education — Examples

Ransomware

What to Look for

How to React

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YOUR COMPUTER HAS BEEN LOCKED!

This operating system is locked due to the violation of the federal laws of the United States of America! (Article 1, Section 8, Clause 8; Article 202; Article 210 of the Criminal Code of U.S.A. provides for a deprivation of liberty for four to twelve years.)
Following violations were detected:
Your IP address was used to visit websites containing pornography, child pornography, zoophilia and child abuse. Your computer also contains video files with pornographic content, elements of violence and child pornography! Spam-messages with terrorist motives were also sent from your computer.
This computer lock is aimed to stop your illegal activity.

To unlock the computer you are obliged to pay a fine of $200.

You have **72 hours** to pay the fine, otherwise you will be **arrested**.

You must pay the fine through [redacted]
To pay the fine, you should enter the digits resulting code, which is located on the back of your [redacted] in the payment form and press OK (if you have several codes, enter them one after the other and press OK).

OK

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User Education — Examples
Social Engineering
What to Look for
How to React

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From a friend:
Who can really cook? I know there's several of you that can really cook. I look forward to seeing your surveys.
Who can cook real food, not stuff prepackaged or in a box?
HAVE YOU EVER?
1. Made biscuits from scratch? Yes
2. Fried fresh okra? No
3.Made sourdough bread? No
4. Fried chicken? Yes
5. Made spaghetti sauce from scratch? Yes
6. Made any kind of yeast bread? Yes
7. Baked a cake from scratch? Yes
8. Made icing from scratch? Yes
9. Cooked a pot roast with all the veggies? Yes
10. Made chili from scratch? Yes
11. Made a meatloaf? Yes
12. Made scalloped potatoes? Yes
13. Made mac/cheese from scratch? Yes
14. Made a jello salad? Yes
15. Made peanut brittle? No
16. Made fudge? Yes
17. Made cookies from scratch? Yes
18. Cooked a pot of beans from dried bean? No
19. Cooked a pot of greens? Yes
20. Made cornbread from scratch? No
21. Make a pie dough from scratch? Yes
22. Cooked a whole turkey? Yes
23. Snapped green beans and cooked them? Yes
24. Made mashed potatoes from scratch? Yes

From a friend:
Who can really cook? I know there's several of you that can really cook. I look forward to seeing your surveys.
Who can cook real food, not stuff prepackaged or in a box?
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August 24 at 6:35 AM ·

First day of 8th grade. 😳When did this happen?

I got 100%??? Wow

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Quiz: Only An Engineer Can Get 100% On This Logic Test. Can You?

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First Job:	STOP
Favorite Food:	GIVING
Favorite Color:	PEOPLE
First Pet's Name:	YOUR
First Child's Name:	PERSONAL
Favorite Restaurant:	INFORMATION
Hometown:	TO
Favorite Singer/Band:	GUESS
Mother's Maiden Name:	YOUR
First Type of Car:	PASSWORDS
Favorite Movie:	AND
Favorite Animal:	SECURITY
High School Mascot:	QUESTIONS

Final Thoughts

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What's Most Important

- Be Educated
  watch URLs, hover over links before clicking on them, Don't publicly post personal information
- If you're unsure – STOP
- MFA for EVERYTHING

Services

- Technology (Managed IT Services)
- Marketing Lead Generation
- Applications
- Security

Processes

- Reactive support
- Centralized management of patches/updates
- Proactive support
- Best practice implementation
- Incident response planning/testing
- Strategic planning sessions
- User education
- Policy Implementation

Questions?

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