

Presented by
Matt Jones, Chief Solutions Officer
Kyle Raupach, Security Officer
World Synergy

IT Security in the Workforce

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SECURITY

Presenters



Matt Jones
Chief Solutions Officer
World Synergy



Kyle Raupach
Security Officer
World Synergy

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.

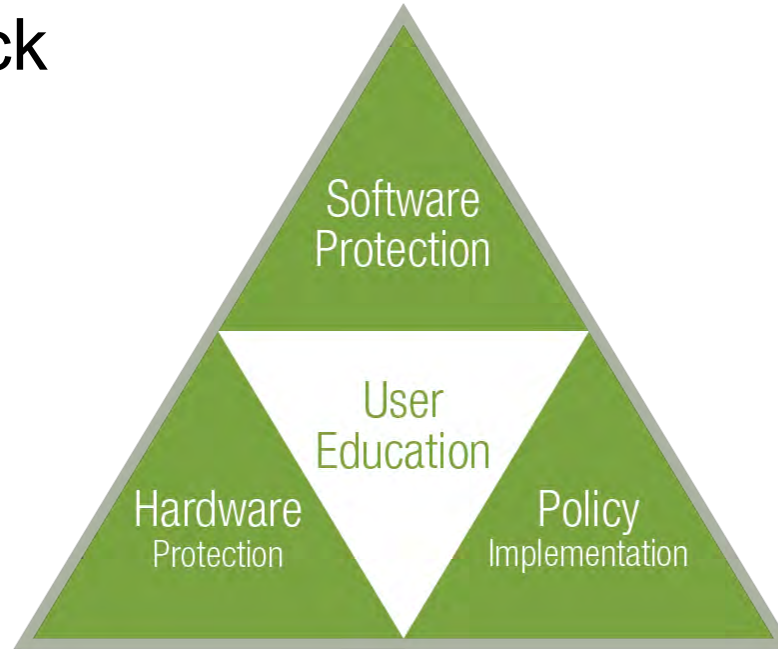
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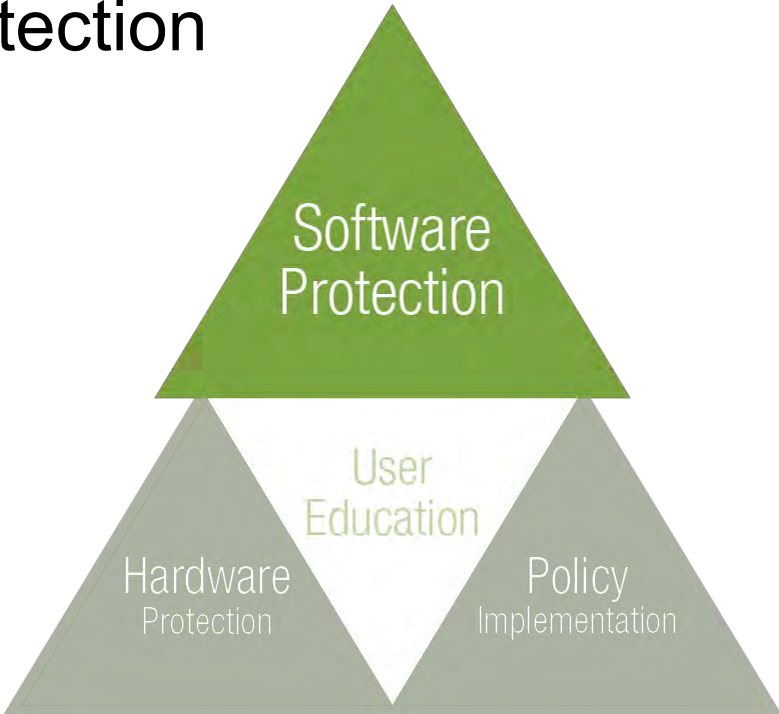
COVID and Cybercrime

- 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

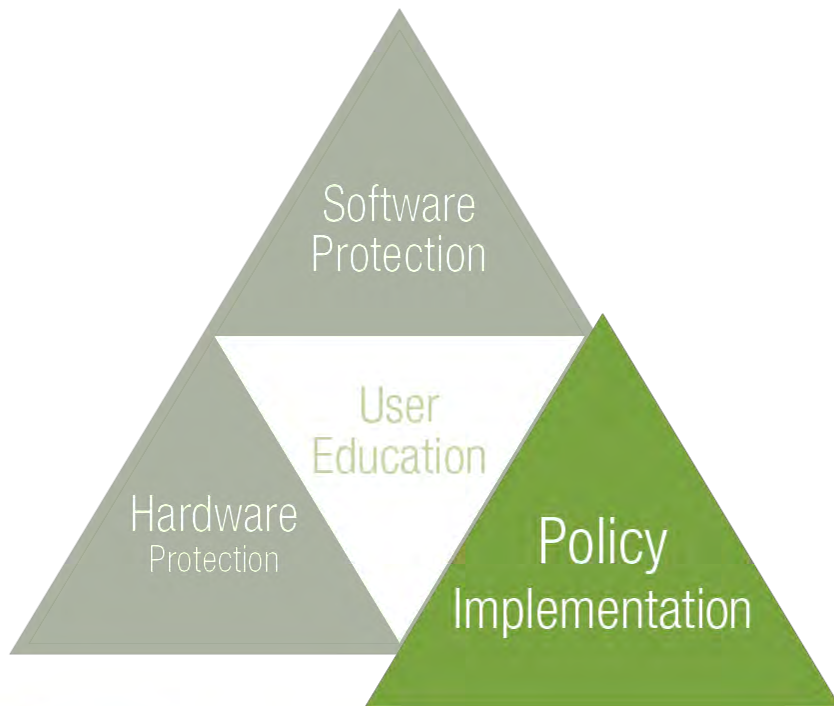


Software Protection

- 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



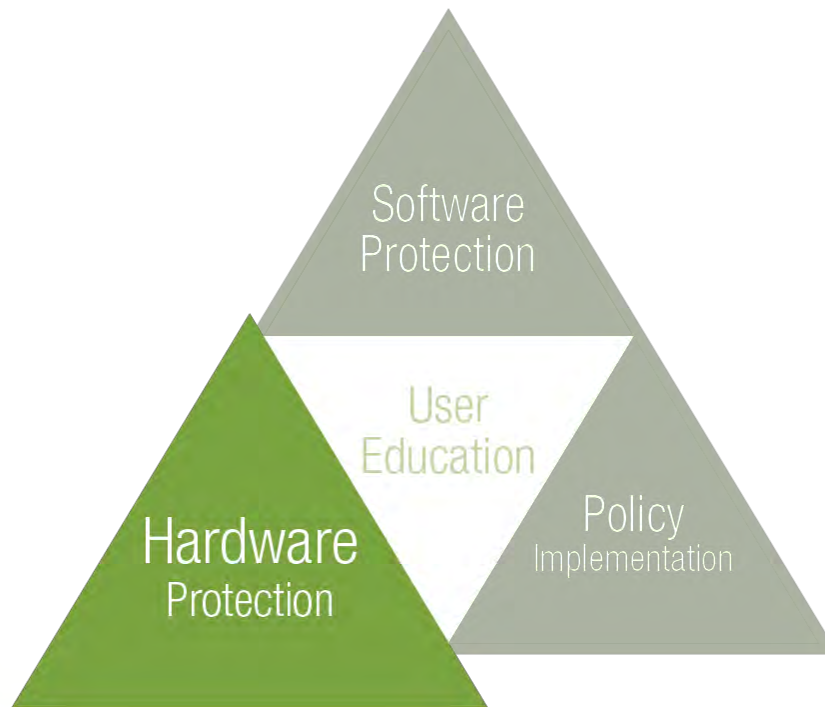
Policy Implementation

- 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



Policy
Implementation

Hardware Protection



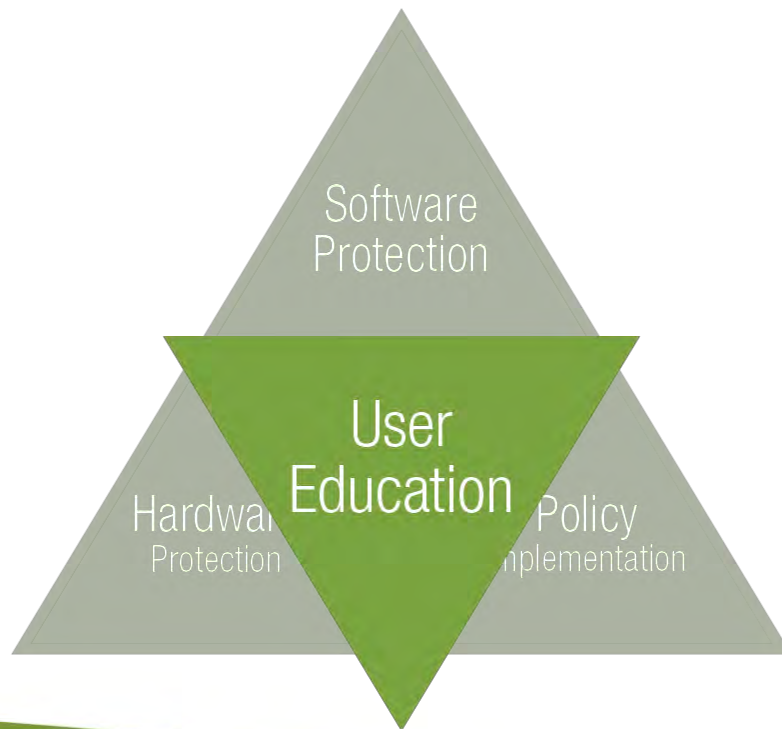
Hardware Protection

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



Hardware
Protection

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

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

Junk - Delete Archive Reply Reply All Forward Meeting Create New Move 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

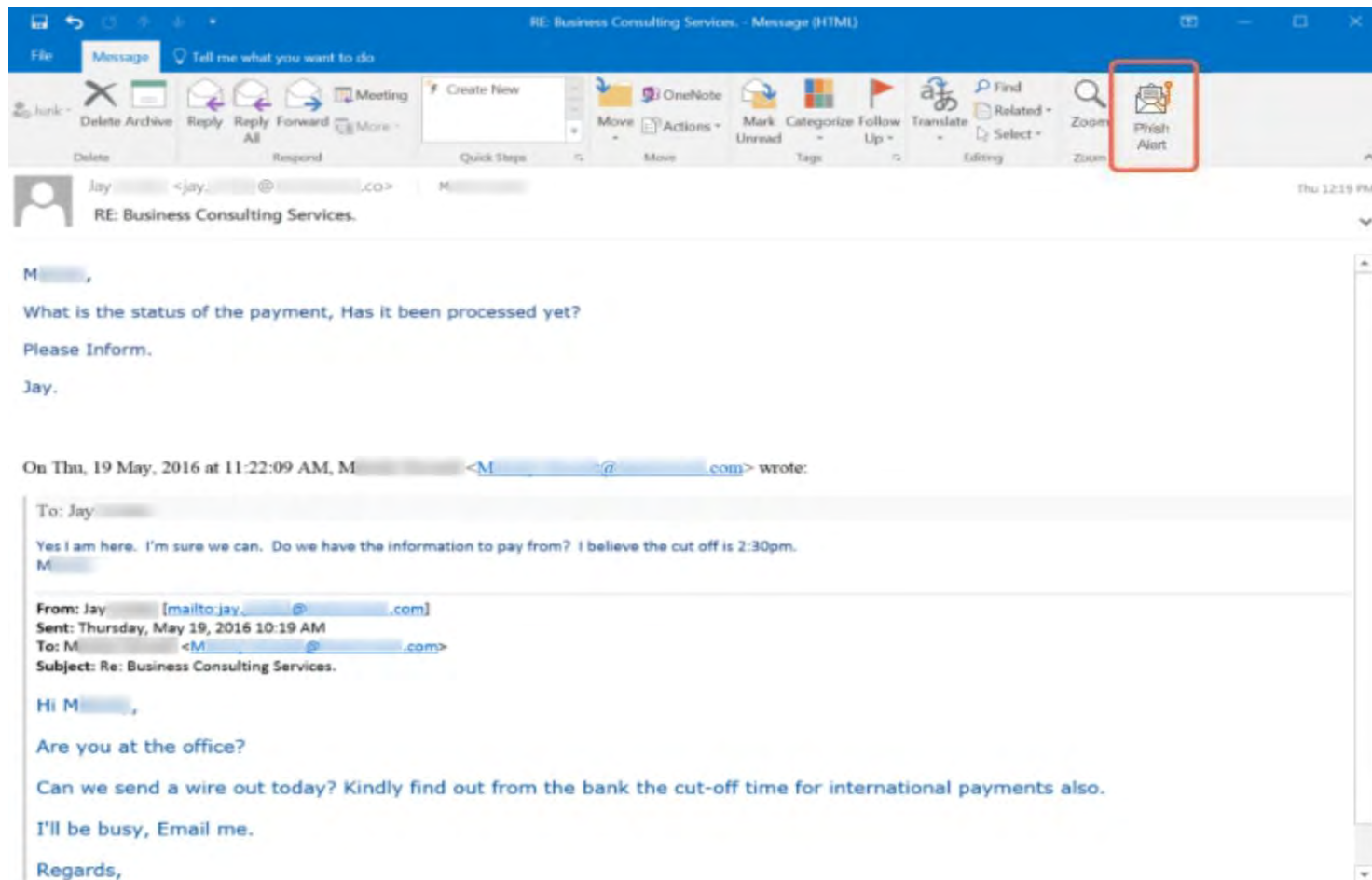
We detected something unusual to use an application to sign in to your Windows Computer. We have found suspicious login attempt on your windows computer through an unknown source. When our security officers investigated, it was found out that someone from foreign IP Address was trying to make a prohibited 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](#)



RE: Business Consulting Services. - Message (HTML)

File Message Tell me what you want to do

Delete Archive Reply Reply Forward Meeting More - Create New Move Actions - Mark Unread Categorize Follow Up - Translate - Find Related - Select - Zoom Phish Alert

Jay <jay. @.com> M Thu 12:19 PM

RE: Business Consulting Services.

M ,

What is the status of the payment, Has it been processed yet?

Please Inform.

Jay.

On Thu, 19 May, 2016 at 11:22:09 AM, M <M @.com> wrote:

To: Jay

Yes I am here. I'm sure we can. Do we have the information to pay from? I believe the cut off is 2:30pm.

M

From: Jay [mailto:jay. @.com]
Sent: Thursday, May 19, 2016 10:19 AM
To: M <M @.com>
Subject: Re: Business Consulting Services.

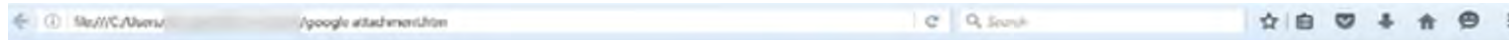
Hi M ,

Are you at the office?

Can we send a wire out today? Kindly find out from the bank the cut-off time for international payments also.

I'll be busy, Email me.

Regards,



One account. All of Google.

Sign in to continue to Gmail




 Stay signed in [Need help?](#)

[Create an account.](#)

One Google Account for everything Google



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).



Wana Decrypt0r 2.0



Ooops, your files have been encrypted!

English ▾

What Happened to My Computer?

Your important files are encrypted. Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?

Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time. You can decrypt some of your files for free. Try now by clicking <Decrypt>. But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't pay in 7 days, you won't be able to recover your files forever. We will have free events for users who are so poor that they couldn't pay in 6 months.

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click <About bitcoin>. Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>. And send the correct amount to the address specified in this window. After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am

Payment will be raised on

5/16/2017 00:47:55

Time Left

02: 23: 57: 37

Your files will be lost on

5/20/2017 00:47:55

Time Left

06: 23: 57: 37

About bitcoin

How to buy bitcoins?

Contact Us

Send \$300 worth of bitcoin to this address:



bitcoin

ACCEPTED HERE

12t9YDPgwueZ9NyMgw519p7AA8isjr6SMw

Copy

Check Payment

Decrypt

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

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< joseph_abbattine_steinberg11 ...

**Joseph abbattine
Steinberg**

#CEO IN BITCOIN MINING/FOREX
TRADER

◆ #Cybersecurity, #Blockchain, and
Emerging Technologies Advisor ◆
Author and Columnist ◆ @Forbes &
@Inc ◆ NYC 🇺🇸, US

278 Followers 702 Following
See Similar Accounts

Following ▾ Message

📷 📷

At age 18 they will
let you commit to
\$200,000 in student
loans but won't give
you a \$20,000
Business Loan...
Think about that

The Learning S
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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. Made 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:

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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?



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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