Practical Approach for Better Cyber Security

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Who am I and why do I care?



- I build security products for a living
- You are my neighbors
- Your business and reputation are on the line
- SMB is a target rich environment
- And supply chain attacks are all the rage

Plus Mark asked me ... and said there would be lunch.



About ThreatQuotient

- Founded 2013
 - Real users with unmet need
- **Leader In Emerging Market**
 - Tier-1 customers with >400% growth rate
- **World-Class Team**
 - Cisco
 - SourceFire **SOURCE** tire
 - iSight
 - Symantec



General Dynamics GENERAL DYNAMICS

Financially Strong





allalla

CISCO

SIGHT



- **Global Presence**
 - Sales, Channel Partners, Technical Support
- **Local Development Center**
 - Mount Airy



Maryland Center of Excellence!



Awareness

- Assume you are vulnerable to attack
- Why am I a target?
- What is the most valuable thing to your business?
- Prepare for what can go wrong

Here are some practical steps
 Practice them, teach them, test them



Lock It Up!

- Backup your data
- Encrypt your hard drives
- Turn on the firewall
- Your phone... passcode, auto-lock







Lock It Down!

- Cable Modem
 - Turn off remote management
 - Change default network ID & password
 - Don't allow inbound connections
- Wi-Fi Home or Office
 - Segregate your guests from employees
 - Strong passwords to join
 - Change them when you have departures
- Wi-Fi Traveling
 - Don't connect to something you don't know
 - Verify with the owner the network & passcode





Practice Safe Browsing

- HTTP vs HTTPS ... S stands for "something"
- HTTP = unsafe

- https://www.msn.com
- Personal data and HTTP are a No No!
- Pick the right browser
- I use Google Chrome for a reason
 - Lots of plugins to keep you safe

- chrome
- Popup & ad blockers, password safes, & HTTPS always
- And they patch it frequently



<u>Patching</u>

- Everything has vulnerabilities (bugs)
 - TV, Smart Thermostats, Phone, Refrigerators, IOT
- Know how to get updates
- Apply them on a regular basis
- Automatic checking & updating



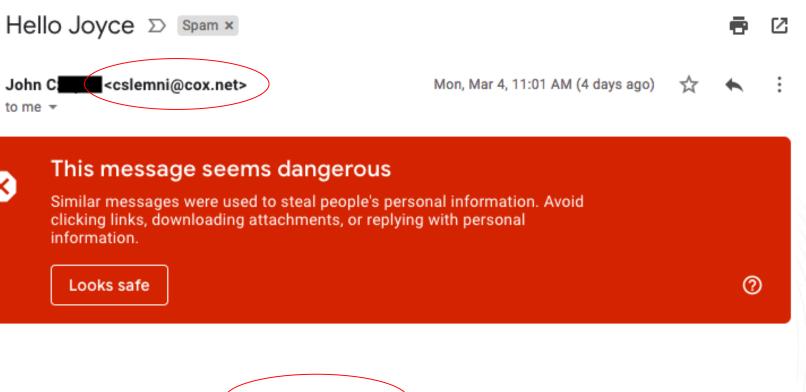


Email...Necessary Evil

- Using an email service? Good!
- Don't recognize the sender? Do Not Click!
- Hover over links before clicking
- Recognize phishing tactics
 - Grammar matters!
 - Verify that address!
 - Who needs that many gift cards?
 - And stop asking me for my phone number!







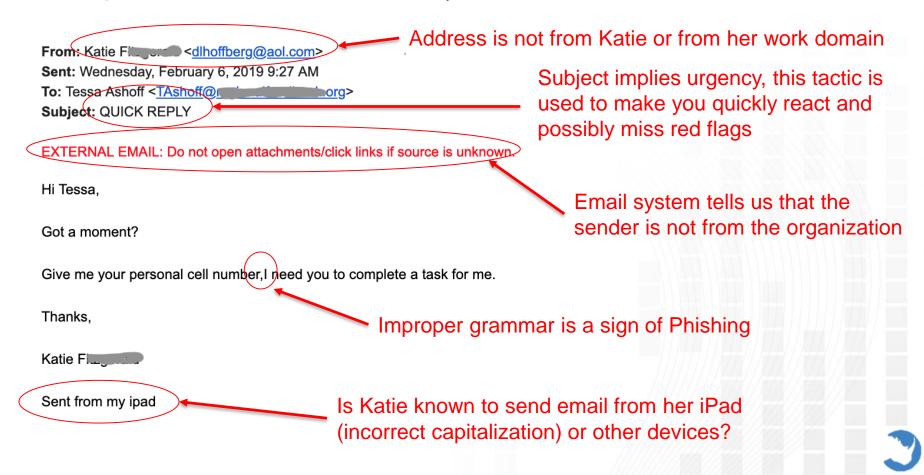
Joyce, got a moment? Give me your personal cell number as need you to complete a task for me. Regards.







Example From a Family Member



Account Alert: A New Update is Available

This looks serious and real!

BANk of America <secure.custom1CER4Yzn@escobalbloq.com> Today, 3:36 PM You *

Account Alert. A New Update is Available

Security Alert

For security reasons, your account has bee review and confirm your personalized in

Sign in to Update your Statements

Your security is important to us: Sign in instructions that will be needed.

ВА

Bank of America <secure.custom1CER4Yzn@escobalbloq.com>

Today, 3:36 PM

You &

Please don't reply directly to this automatically generated email message. To ensure your safety, extra steps have been added to verify your identity.

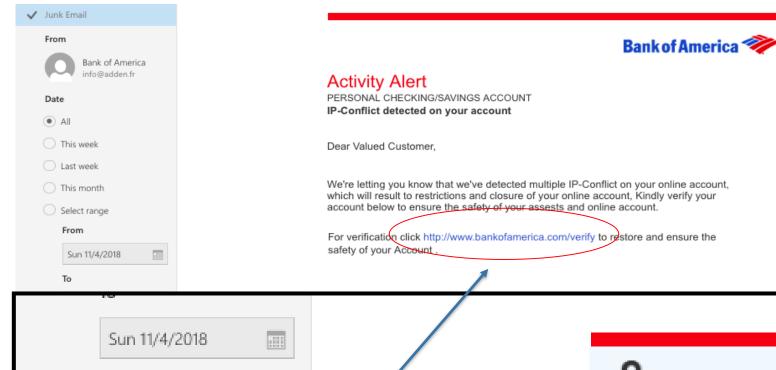
Bank of America Email, 9th Floor NC1-028-09-02, 150 N College St., Charlotte, NC 28255. Please do NOT send any physical mail to this address, especially mail containing sensitive information.

Need to get in touch? Simply visit our <u>Contact Us</u> page for multiple ways to connect. Please do not reply to this email, as email replies are not monitored.

Read more about Privacy & Security.

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To confirm the authenticity of me You last signed in to Online Bar

civilwarmerchandise.com/system/logs/valdiate/BOAlastest/login.php

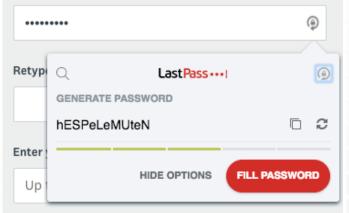
nambar: Alwaye look for you



Passwords & Multi-Factor Authentication

- Sharing isn't caring
- Different passwords
- Strong passwords
- How good is your memory?
 - LastPass or OnePassword
- Tokens, BioMetrics, Dual-factor Authentication
 - Google Authenticator as example
 - Text authentication codes









Summary

- Awareness & Training (challenge your team)
- Backup and Encrypt your data
- Lockdown your Wi-Fi
- Lockdown permissions on your modem, laptop & mobile devices
- Know where and what you're surfing
- Exercise caution when dealing with email
- Get a password manager.... please!



References

CYBER TIPS FOR YOUR BUSINESS

- Assess risk and identify weaknesses If your sensitive information is linked to the Internet, then make sure you understand how it's being protected.
- Create a contingency plan Establish security practices and policies to protect your organization's sensitive information and its employees, patrons, and stakeholders.
- Educate employees Make sure that employees are routinely educated about new and
 emerging cyber threats and how to protect your organization's data. Hold them accountable to the
 Internet security policies and procedures, and require that they use strong passwords and
 regularly change them.
- Back up critical information Establish a schedule to perform critical data backups to ensure
 that critical data is not lost in the event of a cyber attack or natural disaster. Store all backups in
 remote locations away from the office, and encrypt sensitive data about the organization and its
 customers. Invest in data loss protection software and use two-factor authentication where
 possible.
- Secure your Internet connection Use and regularly update antivirus software and antispyware
 on all computers. Automate patch deployments across your organization, use a firewall, encrypt
 data in transit, and hide your Wi-Fi network. Protect all pages on your public-facing websites.
- Create a continuity plan A continuity plan ensures that of nature, accidents, and technological
 or attack-related emergencies. Business functions can continue to be performed during a wide
 range of emergencies, including localized acts templates for this type of plan at
 http://www.fema.gov/planning-templates.





