Protecting Against Social Engineering and Phishing

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26 September 2023
BLUE CYBER EDUCATION SERIES
Protecting Against Social Engineering and Phishing

A simple, proactive approach to securing your small business
What are we covering today?

- Target audience
- Creating a culture of cybersecurity
  - Defending against social engineering
  - Creating strong passwords
  - Securing your devices
  - Reporting incidents
- Free trainings, tools, and other resources
Quick about me

- Anna Etherton, Phishing Team Lead

Anna Etherton is the Phishing Campaign Lead at the Cybersecurity and Infrastructure Security Agency (CISA). For seven years, she has provided Phishing Simulation services to State, Local, Public, and Private organizations. Her role involves overseeing the Phishing Campaign Assessment (PCA) team, which measures user responses to phishing emails mimicking real threats. Anna has also conducted Cyber Hygiene Workshops and Tabletop Exercises in Indonesia, Thailand, and the Philippines.

- Previously, Anna served as Program Manager and Government Lead for the Network Security Information Exchange (NSIE) Committee, collaborating with domestic and international members to share threat information. Prior to that role, she was part of the Pentagon’s Computer Incident Response Team (PENTCIRT), working closely with CYBERCOM, DISA, and Army Commands to investigate cyber security violations inside the Pentagon.

- Anna has served overseas for over 6 years as a US Army Combat Veteran and civilian contractor, overseeing satellite operations, Blue Force Tracking, network infrastructure, and IT security compliance.

- Anna loves skydiving, ziplining, riding her motorcycle, and teaching Cyber Awareness to local charity organizations. Her favorite pastime is attending the Marine Corp Marathon, simply to watch from the sidelines.
Target audience - you!

- “Cyber rich, resource poor”
  - Fewer than 20 employees
  - No in-house, dedicated information technology staff
- Ideal Future State vs Current State
  - Burden of cybersecurity
  - Tools, people, and processes
  - Better than nothing, then building too optimal
Culture of Cybersecurity

- Starts at the top
  - Lead by example
  - No shame
  - Share personal experience on incidents
- Gamification, because games are fun!
  - Positive behavioral reinforcement
  - Security Champions
- Home life and work life
  - Good and bad behaviors can flow both ways
  - Train positive behaviors at work
Phishing Defense

- Types of Social Engineering: Phishing, Vishing, Smishing...
  - Result is most commonly credential theft or malware deployment
- Understanding indicators
  - Trigger strong emotions (anger, fear, urgency, curiosity)
  - Sender’s email and presumed identity
- I think this is phishing, what do I do?
- I clicked, now what?
Adapting and Staying Relevant

[ACTION REQUESTED] Meetings via MSU Zoom

To: Wash, Rick
Hello Rick,

MSU IT Services requests you to provide important information regarding your use of Zoom for work-related meetings at MSU. Due to increased use of Zoom for online teaching, most MSU staff and students are increasingly facing connection problems. MSU IT Services is upgrading its Zoom subscription and making changes to balance administrative and academic use of the software. These changes will affect how and when you can use the software and they will be applied automatically to your MSU Zoom account on Friday, November 5.

To ensure your work requirements are not affected by these changes, you are required to provide MSU IT with the necessary information via this form https://forms.msu.edu/M0Wv0vVv2TgOlKo7 before Friday, November 5.

We appreciate the opportunity to serve you.
MSU Information Technology

Questions or concerns?
MSU IT is available 24/7 to support your IT needs. Contact the MSU IT Service Desk using one of the methods listed below.
- Call (517) 432-6200
- Email ithelp@msu.edu
- Chat https://tech.msu.edu/support/help

I use Zoom a lot; maybe I should read this

Deadline is really soon: that’s weird. They usually give us more time

Uses my name. Emails like this don’t usually use my name

Link asks me to login. That’s weird; I am already logged in

Logo looks familiar

Dear [< your name >], We noticed unusual sign in attempts on your Apple ID, therefore your account has been locked. To unlock visit WWW. [< fake Apple website link >]
What’s Your Password?

https://www.youtube.com/watch?v=opRMrEfAlil start at 40 seconds
Strong Passwords

- What makes for a good password?
  - Long - at least 15 characters
  - Unique - never used anywhere else
  - Randomly generated - usually by a computer or password manager.
    - They’re better than humans at being random!
- Use a password manager!
  - Reputable app (with a strong primary password!)
  - Stored in browser (but watch who has access to that device!)
  - Otherwise, use a memorable passphrase that is long and unique
- Multi-Factor Authentication is optimal, but not always an option
Device Security

- Train folks on what a “device” is
- Keep your software and app up to date
  - Better yet, enable auto updates!
- Download with caution
  - Use official app stores with reputable developers
  - Avoid unknown or 3rd party applications
- Treat your device like a wad of cash- would you leave that unattended?
  - Locking your screen
  - Be aware of your surroundings-- OpSec!
Incident Reporting

- Something will happen! Are you prepared?
  - Act quickly to limit damage
  - Report it, even if you think someone else already has
  - There's no shame if you caused an incident, report it!
  - Speak up if you see security policies or processes that don't work

- Finally, organizations should report anomalous cyber activity and or cyber incidents 24/7 to:
  - report@cisa.gov
  - (888) 282-0870
Free Resources!

- Visit our Small and Midsize Business webpage for resources to help your business recognize and address cybersecurity risks [https://www.cisa.gov/cyber-guidance-small-businesses](https://www.cisa.gov/cyber-guidance-small-businesses)

- Create a custom cybersecurity plan for your small business with the Federal Communication Commission’s (FCC) Small Biz Cyber Planner 2.0 -- [https://www.fcc.gov/cyberplanner](https://www.fcc.gov/cyberplanner)


- Safeguard your business, employees, and customers from online attacks, data loss, and other threats with resources from the National Cyber Security Alliance (NCSA) [https://staysafeonline.org](https://staysafeonline.org)

- Videos
  - Enabling MFA [https://youtu.be/gj14IzfpFXs](https://youtu.be/gj14IzfpFXs)
Questions?