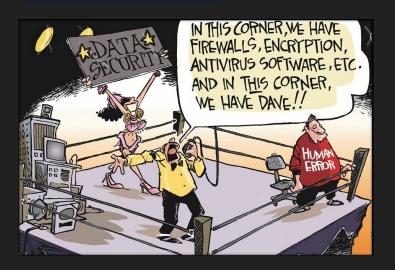
Plenty of Phish in the Sea



The I33test of attack vectors

Gone Phishing







Threat of Phishing

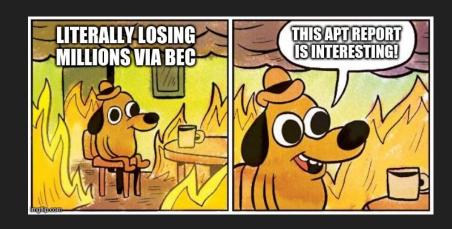


Threat of Phishing (it's high... it's very high)

- 74% of U.S. orgs phished in 2020 up from 60%
 - 30% higher than the global avg
- Becoming more sophisticated
- RaaS relying more and more on phish
- 11% PhishAlarm failure rate

*according to ProofPoint's 2021 State of Phish Report

• 1.9B loss (for 2019) - FTC



Does it Look Like a phish? (unreliable)

What to look for:

- Pay attention to the sender
- Hover-over links where does it go?
 - o @John, remember to ask Q



Does it Look Like a phish?

What to look for:

- Pay attention to the sender
- Hover-over links where does it go?
 - @John, remember to ask Q
- Rarely contains specifics
- Typos
- Something weird...



Steps of Social Engineering (SE)

- 1. The rouse story of why you're being contacted
- 2. The connection emotional, attempt to establish trust
- 3. Some point of pressure or fear time, debt, people
 - together with the connection -> gets victim to react
- 4. The ask
 - why we say never do certain actions/give information without



Dear Graduate Student,

Our records show that your access [univ3] library databases is about to expire. Due to new security precautions established to protect [univ3] Library system, you have to renew your library account on a regular base, so please use the following link

Click Here http://go.[univ2].edu/[shortened]

After your successful authentication, your access will be restored automatically and you will be redirected to the library homepage. If you are unable to log in, please contact the library help desk for immediate assistance. We apologize for any inconveniences this may have caused.



Operation did not complete successfully because the file was created on IOS device.

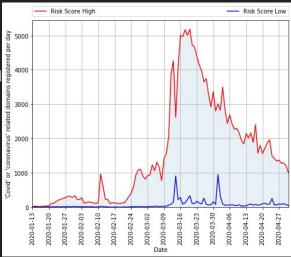
To view and edit document click Enable Editing and then click Enable Content.

Important Notes on Social Engineering

- EVERYONE is vulnerable to being socially engineered
- It is NOT the fault of the victim
- SE is an emotional problem, not an intelligence one

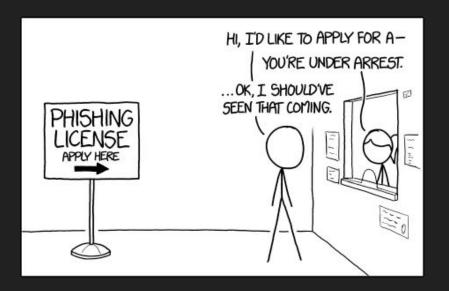
Important Notes on Social Engineering

- EVERYONE is vulnerable to being socially engineered
- It is **NOT** the fault of the victim
- SE is an emotional problem, not an intelligence one
- Attackers do not care They are vicious people willin to harm others for their benefit



Advice

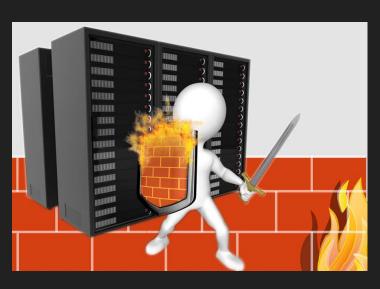
- Remember: you have NO IDEA who is on the other side
- Be aware of how SE/phishing operates
- Use an AV (or similar software)
- Set **clear** guidelines
- Take 5!
- Research



Investigation 🥦



- Report to authority (... send urself a backup too)
- Take note of sender notify org if possible
- Investigate links carefully
 - Can sometimes alert phisher
 - Defang URLs if sharing
 - https://sarlacklab.000webhostapp.com/
 - hxxps://sarlacklab[.]000webhostapp[.]com/
- Malware? 😋
 - Move to sandbox!!!
- Share findings!
 - compromised accounts, domains, rouses, URLs, malware signatures, etc.



Investigation Tools:

phishing@wpi.edu

https://www.virustotal.com/gui/home/url

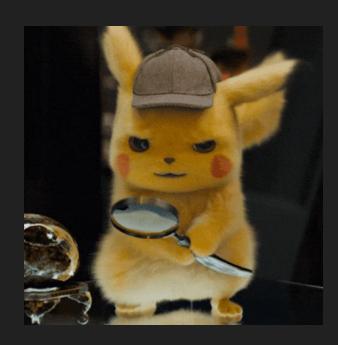
https://o365atp.com/

https://app.any.run/

http://phishtank.org/index.php

https://urlhaus.abuse.ch

https://twitter.com/explore



Orgs to Bother:

- **Proof Point**
- **Great Horn**
- KnowBe4

Volunteer work 😎



phishing@wpi.edu

https://thecyberwire.com/podcasts/hacking-humans

https://darknetdiaries.com/

https://hub.wpi.edu/news/678/phishingirsimpersonation-scam

Layer 8 Con

@humanhacker, @abuse_ch, @PhishStats, @securitydoggo, @ActorExpose, @Cryptolaemus1

