

# Cybersecurity: Protecting Your Digital Assets

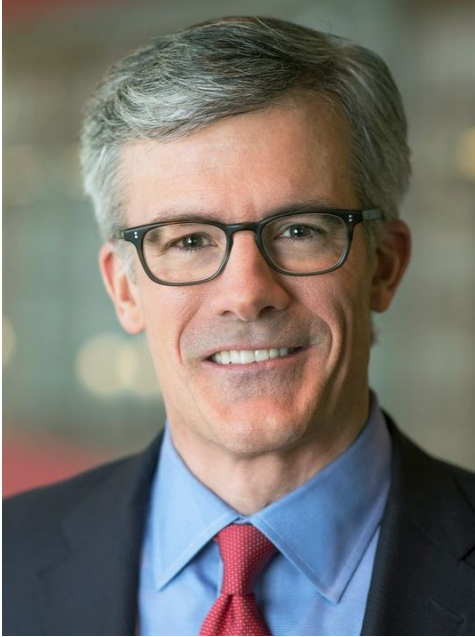


**AARP**<sup>®</sup>  
Fraud Watch Network

Sacramento Area Bogleheads  
December 12, 2020  
<https://sacramentoareabogleheads.org/meetings>

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# Vanguard CEO Tim Buckley



- What keeps him up at night?



# Why do criminals hack computers and phones?



Bank robber Willy Sutton quipped, “That’s where the money is.”

- Direct theft
- Identity theft
- Extortion
- Use your computer resources



# Attacks and Prevention

Attack Method	Prevention
31% Phishing	1. Recognize phishing
30% Software vulnerabilities	2. Update your software
29% Passwords	3. Strong unique passwords
10% Other	



# Phishing (Social Engineering)

91% of cyber attacks begin with phishing.

The phisher wants to trick you into doing something.

- Give personal information
- Click a link to a fake website
- Open a poisoned attachment
- Give access to your computer



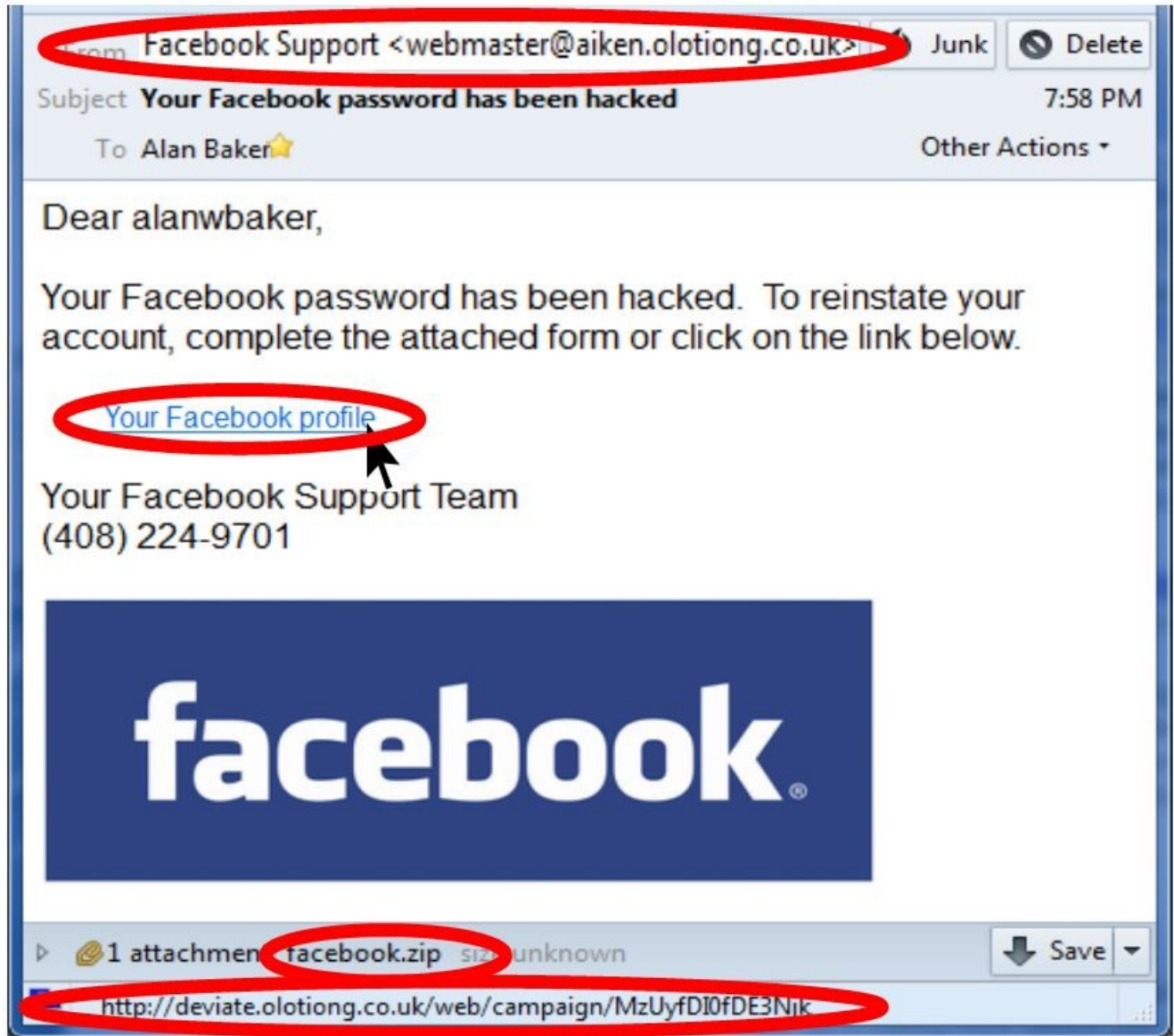
# A Phishing Email

From address?

Link?

Attachment?

<http://checkshorturl.com>



# Questions?



# Software updates

- Microsoft's Patch Tuesday
- Criminals' Exploit Wednesday
- What if no auto-update mechanism?
- All your devices



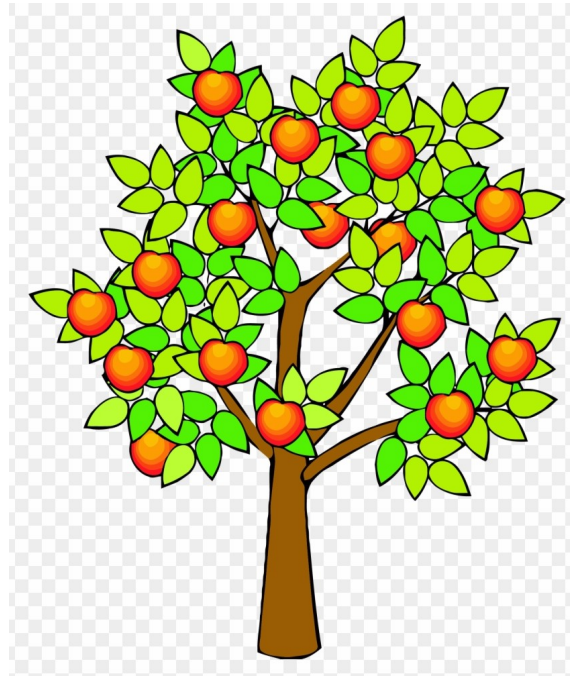


# Ransomware and Backup

- How to recover from ransomware?
- Back up the whole computer (system & files)
- To an external drive
- Then unplug it.



# Questions?



# Quotes about passwords

Change your password every 30 days for better security. (1978)

The IBM logo, consisting of the letters 'IBM' in a blue, striped, sans-serif font.

My password is very strong. I memorize it and use it everywhere. (2020)



# Passwords and Dictionaries

- password
- p4\$\$w0rd
- Qh6r9K!Pz3X
- correcthorsebatterystaple
- Where to store passwords?



# Password Helpers

- Password manager (keychain)
  - Fills strong passwords into websites
  - LastPass, KeePass, web browsers
- Two-factor authentication
  - Something you have, know, or are
  - ATM card + pin
  - Password + text message
  - Time-based one-time pin



# Attacks and Prevention

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**THINGS  
TO DO**

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