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SOME STARTLING CYBERCRIME STATISTICS

- A cyber-attack occurs every 39 seconds
- 78% of US Organizations experienced a cyber-attack in 2018
- 23% of Americans had financial information stolen (or know someone that has)
- 30% of Americans were affected by a data breach in 2018
- Data breaches exposed over 150 million records in 2019
- \$500 billion lost globally to cybercrime (between \$57-109 billion in the US)
- \$1.48 billion lost to phishing
- \$1 billion lost to catphishing

COMMON TYPES OF CYBER-CRIME

- Phishing
- •Spoofing
- DataBreaches

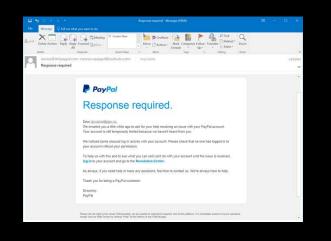


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Attacker creates phony emails or webpages Phishing emails seem trustworthy Monitor and collect data provided by victims Use collected data to commit fraud

PHISHING – WHAT CAN YOU DO?

- Do not click links/attachments in emails you are sent (unless you're absolutely certain the link is legitimate)
- Double check the senders email address.
- Prescribe company mandated fishing awareness training



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Replicates a website in order to dupe rubes Will use brand logos, interfaces, styles and even EXTREMELY similar domains Monitors and collects data provided by victims Use collected data to commit fraud

SPOOFING - WI-FI

- Attackers on the same network can access everything you do while connected.
- Attackers can reroute you to their spoofed webpages if connected to the same network
- This can be an issue while out in public or even at home.



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SPOOFING - WHAT CAN YOU DO?

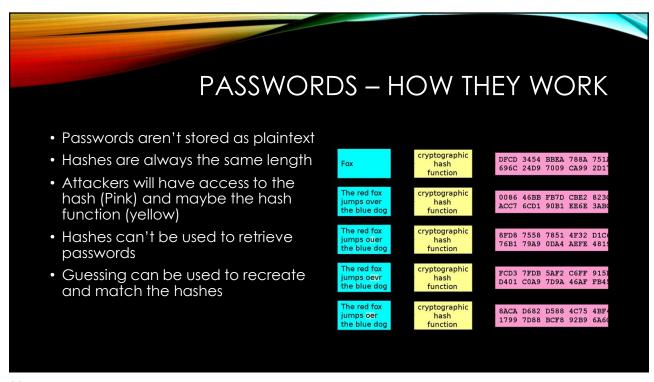
- Verify all links and attachments
- Don't access sensitive information while connected to public Wi-Fi.
- Disable Wi-Fi and Bluetooth while not connected to a trusted network.
- Change home Wi-Fi passwords after installation (and whenever you give your Wi-Fi to a third party)



Attackers gain access to large amounts of data from businesses Average cost of \$3.86 million Out-of-date software can be exploited Weak passwords are easy to guess Malware can exploit otherwise secure systems

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DATA BREACHES – WHAT CAN YOU DO? Raise awareness to phishing and spoofing attacks Keep company software up-to-date Monitor financial records Back up files Use high-quality anti-virus software Get off social media Create strong passwords



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PASSWORDS • Dictionary attacks can be completed in seconds. 1. 123456 4.1% 11. login 0.2% 2. password 12. welcome • Using only lowercase letters creates 0.8% 3. 12345 13. loveme 0.2% TOP 20 a weak password. 4. 1234 0.6% 14. hottie 0.2% MOST COMMON 5. football 0.3% 15. abc123 0.2% **PASSWORDS** • The longer the password the better. 6. qwerty 0.3% 16. 121212 0.2% 7. 1234567890 0.3% 17. 123654789 0.2% Avoid using things that are 8. 1234567 0.3% 18. flower 0.2% commonly known about you. 19. passw0rd 0.2% 20. dragon 0.1% Avoid reusing passwords.

HOW TO REMEMBER PASSWORDS

- Substitute characters with special characters i.e. TacoTrucks becomes T@c0Truck\$
- Use a favorite song.
 "S,d,s'ed,ous.O,n,t'shRRr"
- Make it something meaningful to you. "11988msBwbalw30"



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REFERENCES

- "19 Alarming Cybercrime Statistics For 2020." BroadbandSearch.net, www.broadbandsearch.net/blog/alarming-cybercrime-statistics.
- Thom VanHorn Head of Marketing | BlueVoyant. "Top 5 Cybercrimes and Prevention Tips." *Home Page*, www.bluevoyant.com/blog/top-5-cybercrimes-and-prevention-tips.
- NortonOnline. "What Is a Data Breach?" Official Site, us.norton.com/internetsecurity-privacy-data-breaches-what-you-need-to-know.html.
- Kohgadai, Ajmal. "How to Create a Strong Password You Actually Remember McAfee MVISION Cloud." Skyhigh, Skyhigh Networks, 6 Dec. 2016, www.skyhighnetworks.com/cloud-security-blog/how-to-create-a-strong-password-you-actually-remember/.
- Weiss, Bob. "How Fast Can Your Password Be Cracked?" *WyzGuys Cybersecurity*, 5 Mar. 2015, wyzguyscybersecurity.com/how-fast-can-your-password-be-cracked/.