

Assignment -1

General Cybersecurity Awareness



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What is Cybersecurity?

Cyber security is the practice of defending computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks.

Personal Cybersecurity Tips / Best Practices



Use Strong
Passwords



Use a VPN
When
Necessary



Think
Before You
Click



Update
Your
Home
Router



Update
Your
Devices



Use
Two-Factor
Authenticat
ion



Threats and Practices



Malware



Spear Phishing



Malicious Links



Passwords

Browsing in Public

Data Compromise

Threat: Malware

- Software designed to compromise a device/network
- Examples:
 - Worm/virus
 - Botnet
 - Banking Trojan
 - Ransomware



Who is Targeted?

Ransomware

- It is estimated that ransomware damages will cost more than \$20 billion globally in 2020
- Encrypts/locks files
- Holds files for ransom
- Typically obtained via:
 - Spam & phishing emails
 - Unpatched security vulnerabilities



Best Practices: Malware

- Learn to identify phishing emails
- Exercise caution with links
- Do not download or click suspicious links or files
- Keep software up-to-date
- Back files up regularly



Threat: Spear Phishing

- **Spear-phishing** is a targeted attempt to steal sensitive information such as account credentials or financial information from a specific victim, often for malicious reasons.
- Common cause of data breaches
- Targeted emails
- Sent to small groups or individuals
- Use social engineering tactics
- **93 percent** of incidents/breaches



Threat: Business Email Compromise

- Solicits wire transfer
- Impersonates executive, vendor, or supplier
- Resembles spear phishing
- Targets financial officers



Best Practices: Spear Phishing

- Check the sender
- Look out for warning signs
- Think before you click or take action
- Never hand over sensitive info

Threat: Malicious Links

- Anchor may hide true destination
- Hacked landing pages
- Copycat domains (exampel.com)
- Shortened links



Threat: Password Security

- Susceptible to:
 - Brute force
 - Hacking
 - Malware
 - Phishing
 - Data breach



Best Practices: Password Security

- Effective passwords are:
 - Long
 - Complex
 - Unique
 - Rotating
- Enable MFA where possible

Yes

9@kj*YbM25nGnl

No

p@ssw0rd12

Threat: Browsing in Public

- Unsecured networks
 - “Man in the Middle”
- Visual hacking
- **44%** of stolen devices were left in a public place [3]



Best Practices: Browsing in Public

- Avoid public wireless networks
- Use reputable VPN
- Be mindful of surroundings
- Precautionary apps
 - “Find my phone”
 - “Remote wipe”

Threat: Data Compromise

- May result from:
 - Spear phishing
 - Hacking or malware
 - Simple negligence
- Average cost: **\$3.86 MM** [4]



Best Practices: Data Compromise

- Storing sensitive information:
 - **Yes** to encrypted devices
 - **No** to removable media (flash drives)
- Sharing:
 - Who is authorized?
 - Check email CC's
 - Secured network?
- Destruction:



Cybersecurity Basics Checklist

- Keep all your software up-to-date
- Install a reliable antivirus solution
- Enhance your security with a product that can block attacks antivirus can't detect
- Use strong passwords and change them often
- Activate and use two step verification where available
- Avoid oversharing information on social media
- Back up your data. Do it often. Back up in several places

- Never open emails from unknown senders
- Never download or open attachments sent by unknown senders
- Keep your financial information safe and don't share it with anyone
- Avoid untrusted websites and don't click on suspicious banners or links
- Adjust the privacy and security settings in your browser and apps

THANK YOU