Cybersecurity

The Best Defense is a Good Offense
In the past year, one in every three computer users have been hacked (2016)

More than 4,000 ransomware attacks occur daily (FBI-2016)
Recent cybersecurity threats

- Uber - 57 million Ubers users and 600,000 drivers exposed (late 2016)

- The Equifax breach - 143 million consumers personal information was exposed (2017)

- WannaCry Ransomware - encrypted data of 200,000 systems, sent a message demanding payment of a ransom within 3 days or access to files and information was lost (2017)
Types of Cybercrime:

Identity Theft - Illegal use of personal information to obtain money or credit

- Red flag if unexpected bills, unauthorized charges, or withdrawals
Phishing - uses email or unsecure websites to collect personal or financial information
Imposter Scams - fraudulent emails from government, friends, or family asking for money

You’ve Won Scams - claims you’ve won a prize and need a fee or credit card information to receive it
Malware

- Most cybercrime starts with Malware
- Malware is malicious software that is installed on your computer or device
- It can gain access to your computer without your knowledge and can steal your personal information or sensitive data
Types of Malware

**Virus** - harmful program that infects the files or systems of a computer and then can make copies and spread
Adware-
software that displays unwanted ads when user is online and redirects search requests to certain advertising websites
Spyware - can download onto your device without your permission or knowledge and can track movements like browsing history, steal passwords, and give it to outside parties.
Ransomware—accesses a victim’s files, locks them, and encrypts them until a ransom is paid.

WannaCry probably did make some people cry...

So what can we do?
THE BEST DEFENSE IS A GOOD OFFENSE
CREATE A STRONG PASSWORD

- Use at least 8 characters with a mix of letters, numbers, and symbols
- Use a sentence to make it easy to remember
- Don’t share your password
- Change your password every 6 months

Weak: 12Jack
Better: 12J@cks0n
Best: J@ckB3Nimbl3
THINK BEFORE YOU CLICK!

- Don’t open emails from strangers or open links for unfamiliar sites
- Hover over link to ensure it matches the url address and is legitimate
- Know your source- review the details of apps before you download. Sometimes the free apps can contain malware that will infect your device
WHEN IN DOUBT, DELETE IT!

- Links in emails, tweets, posts, and ads are ways to compromise your computer
- Use common sense and delete it if it doesn’t seem right
SHARE WITH CARE

- Limit the amount of personal information that you save online and use privacy settings

- Be careful what you post on social media - hackers can use personal information to guess passwords
CHECK BEFORE YOU CONNECT

- Confirm the name of the network before you connect to a public wireless hotspot at a cafe, airport, or on a plane.

- Don’t shop or bank while on a public network to avoid exposing personal information.

- Log out when you are done.

- Consider using a VPN (virtual private network) to ensure added security.
LOCK IT UP, BACK IT UP

- Lock your computer or phone when not in use
- Make copies of your valuable information and pictures and store it safely
ADDED PROTECTION:

- Secure the wireless network that you use
- Use stronger authentication when available
- Install and update your antivirus software regularly
Ensure that websites are encrypted when entering personal information

Encrypted sites use https://.

Is this secure?

http://thisasecuresite.com

NO- If it just says http:// it is not secure
Cyber threats are constantly evolving, so it is important to stay educated and be proactive vs. reactive.
GenCyber at Dartmouth College is a great way to explore and learn more about cybersecurity.

The week long program is offered along with the Institute for Security, Technology, and Society at Dartmouth and is funded by the National Science Foundation and the National Security Agency.

http://www.ists.dartmouth.edu/events/summerncamp.html
Sites used:

http://www.dhs.gov/stopthinkconnect


https://techspective.net/2017/09/26/wannacry-ransomware-detailed-analysis-attack/

Staysafeonline.org
