Cyber Threat Awareness
“Hackers only need to get it right once; we need to get it right every time.”

- Chris Triolo
Every Year Malware infections increases in the millions!
Malware

• Ransomware attacks rose 350% worldwide in 2018
• The U.S. accounts for 54.9% of malware attacks
• 47% of malware attacks target smaller organizations
• 85% of small businesses need to improve cyber security
• Everyday 230,000 new malware samples are created
Ransomware

• Ransomware is the biggest malware threat
• 70% of all malware payloads were ransomware
• 75% of organizations that were infected with ransomware had up to date endpoint protection
• In 2021, ransomware attacks occur every 11 seconds
• Average down time for an organization infected with ransomware is 21 days
Cost

• Average ransomware fees have increased from $5k in 2018 to $200k in 2020
• In 2021 the world record for largest ransomware payout was set at $40 million
• “Ransomware cost businesses more than $75 billion per year.”
• HIPPA violations range from $10K to $50k per violations depending on willful neglect
NG 911

- New services will create new vulnerabilities
- Text
- Videos
- Images
- Wearable medical devices
- Car computers
- Building alarms
Case Study

- Dr. Mordechai Guri conducted an evaluation on the impact of a DDoS attack against E911 and NG911 infrastructure in North Carolina.
- Using 6k bots he was able to block 20% of land line callers and 50% of mobile callers.
- With a TDoS attack researchers estimated it would take 200k bots to “jeopardize the entire U.S.” 911 infrastructure.
Defense in Depth

- Layered security
- Redundant security
- There is no one tool protects all
- Firewall
- Endpoint protection
- Network monitoring
Benefits of Proper Cyber Security

• Quicker to respond to an attack
• Ability to find the core issue
• Prevention/proactive response instead of reactive
• Deters less sophisticated attackers
• Less downtime
• Save money in the long term
Sources

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