What is Cybersecurity?

• Cybersecurity is the protection of computer systems from cyber attacks, which include theft of or damage to their hardware, software or electronic data.
Types of Cyber-attacks

• System Compromise: An unauthorized user gaining physical access to a computer

• Denial-of-Service and Distributed Denial-of-Service: Disrupting, degrading, or “taking down” a system.

• System Misuse: Fraudware sites and spam
Motives of Cyber-attacks

• Cyber-Crime
• Intellectual Property Theft
• Espionage
• Cyber-Terrorism
Importance of Cybersecurity

• According to a recent article from Cybint, there is a hacker attack every 39 seconds, affecting one in three Americans each year.
• In this increasingly connected digital world, it is important to protect ourselves and others from threats, as everyone who has a computer is a target.
Defenses against Cyber-attacks

• Defense tactics include:
  • Access Control
  • Firewalls
  • Intrusion Detection
  • Intrusion Prevention
  • Software Firewalls
  • Software IDS/IPS
  • Anti-virus/Anti-malware
  • Laws and Regulations
User Awareness

• In addition to the several defense tactics on the previous slides, the most important defense is user awareness.

• Everyday people understanding the importance of cybersecurity is the greatest defense against cyber-attackers

• Through this presentation, I am contributing to user awareness by spreading the lessons I learned at GenCyber
Thank you for listening!

and special thanks to GenCyber at Dartmouth sponsored by ISTS and Information Technology Services at Dartmouth.