

# Cybersecurity

## 2.4.1 - Malware



# What is Malware?

- A generic term applied to software utilized for malicious purposes.
- In the context of cybersecurity, malware is intended to subvert the confidentiality, integrity, or availability of information and the systems that process that information.

Malicious + Software = Malware



# Types of Malware

- Virus
- Crypto-malware
- Ransomware
- Trojan
- Worm
- Spyware
- Bloatware
- Keylogger
- Bot
- RAT
- Logic Bomb
- Rootkit
- Backdoor



# Malware Infection

- Typically work in concert:
  - Worms exploit vulnerability
  - Installs backdoor
  - Bots may be installed later
- A program must run:
  - Link from an email
  - Errant download
  - Worm
- Computers are vulnerable
  - OS – Patches, Defense-in-Depth
  - Proper employee training & Backups

