

Malware and Viruses

What is Malware?

- Malicious software, better known as malware, is software that is harmful to a computer, and often installed without the owner's knowledge



Types of Malware



- While viruses are the most well known, there are multiple types of malware
- These include adware, spyware, trojans, and worms
- All of these are intended to harm the computer on which they are downloaded

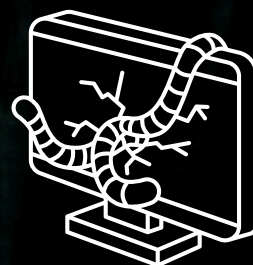
Virus vs Worm

Virus:

- Type of Malware that attaches to a file.
- Spreads when the file is ran or shared

Worm

- Standalone malware that can self-replicate
- Spreads via Networks and Drives



Malware Incidents

- WannaCry (2017): Worm - 230k Infected, \$4-8B
- NotPetya (2017): Wiper (Virus) - 3 Companies, >\$10B
- ILOVEYOU (2000): Email Worm - >10M, \$5.5–8.7B

How to Protect Against Malware

- Install antivirus software and keep software updated
- Use strong passwords
- Download software from trusted sources
- Back up all data
- Use multifactor authentication for extra security

