

Malicious Code

Objectives:

- *Identify what Malicious code is
- *Know the categories of Malicious code
- *Introduce you to the parts of Malicious software
- *Know similarities between computer virus and biological virus

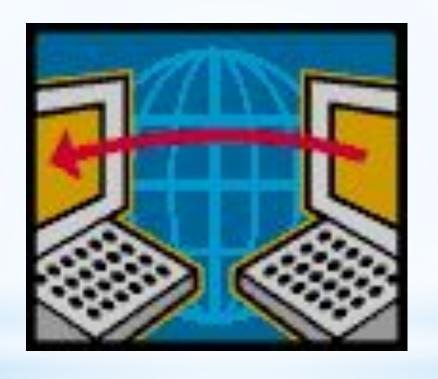
- *Identify the 4 Phases of a Virus
- *Briefly review the anatomy of a Virus

*What is malicious code?

A broad category of software threats to your network and systems

- *Modifies or destroys data
- *Steals data
- * Allows unauthorized access,
- *Exploits or damages a system

A Computer Program is designed to achieve a particular function



Malicious
when the
designed to
cause
adverse
effects

AKA: Programmed Threats

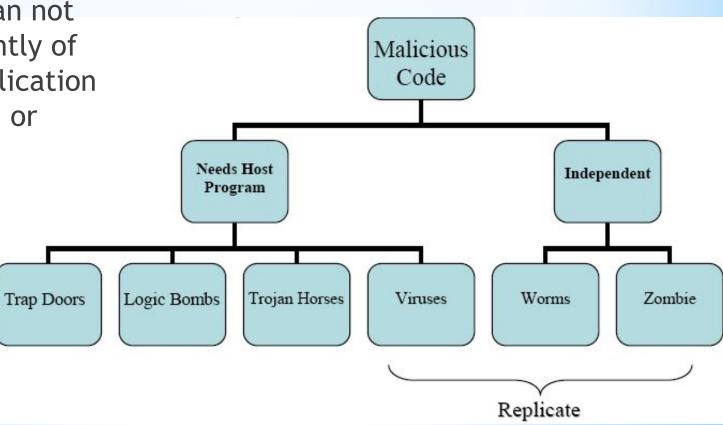
Independent:

Self contained program that can be scheduled and ran by the operating system

Needs Host Program:

essential fragments of programs that can not exist independently of some actual application program, utility, or system program

Two categories of Malicious Code



Parts Of Malicious Software

*Trap Doors: Secret entry

*Logic Bombs: code embedded in a program

*Trojan Horses: security breaking program

*Zombies: takes over another internet- attached computer

*Viruses: Infects other programs

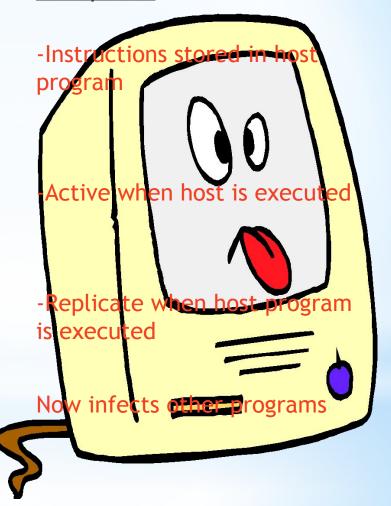


Biological Virus VS. Computer Virus

Biological



Computer



Four Phases of a Virus













ANATOMY OF A COMPUTER VIRUS

Virus Structure has four ports

- 1- Mark can prevent re-infection attempts
 - 2- Infection Mechanism causes spread to other files
 - 3- Trigger are conditions for delivering payload
 - 4- Payload is the possible damage to infected computer