Lecture 4: Attacks Part 2

Date: October 4, 2013

Homework Due: Oct. 4 at 5:00pm (today)

1. What is malware?
   a. Trojan horse, replicating Trojan horse
      i. The game of animal
      ii. Thompson’s Trojan horse
   b. Computer viruses
      i. How they work
      ii. Stealth viruses
      iii. Polymorphic viruses
   c. Computer worm
      i. How they work
      ii. CHRISTMA EXEC worm
      iii. Internet worm
      iv. Other worms
   d. Bacteria, logic bomb

2. Example: Internet worm

3. Example: Melissa macro virus

4. Discussion question
Discussion Topic

A professor wants his computer security class to learn about computer viruses. So he creates an exercise for them to write one and test it out. They will do this on a network that is not connected to any other network (and, especially, not to the Internet).

Do you think having students write viruses is a reasonable way to have them learn about computer viruses?