

# Unit -2

**Zombies and Trojan Horses:** Working of Zombies and Bot Networks, Working of Trojan Horses, Zombie Money Trail, Working of Zombie and Trojan Protection

**Security Dangers in Browsers:** Hackers exploit Networks, Protection against browser based attacks

**Worms and viruses:** Working of viruses and worms, antivirus software

# Malware

## What is a Malware ?

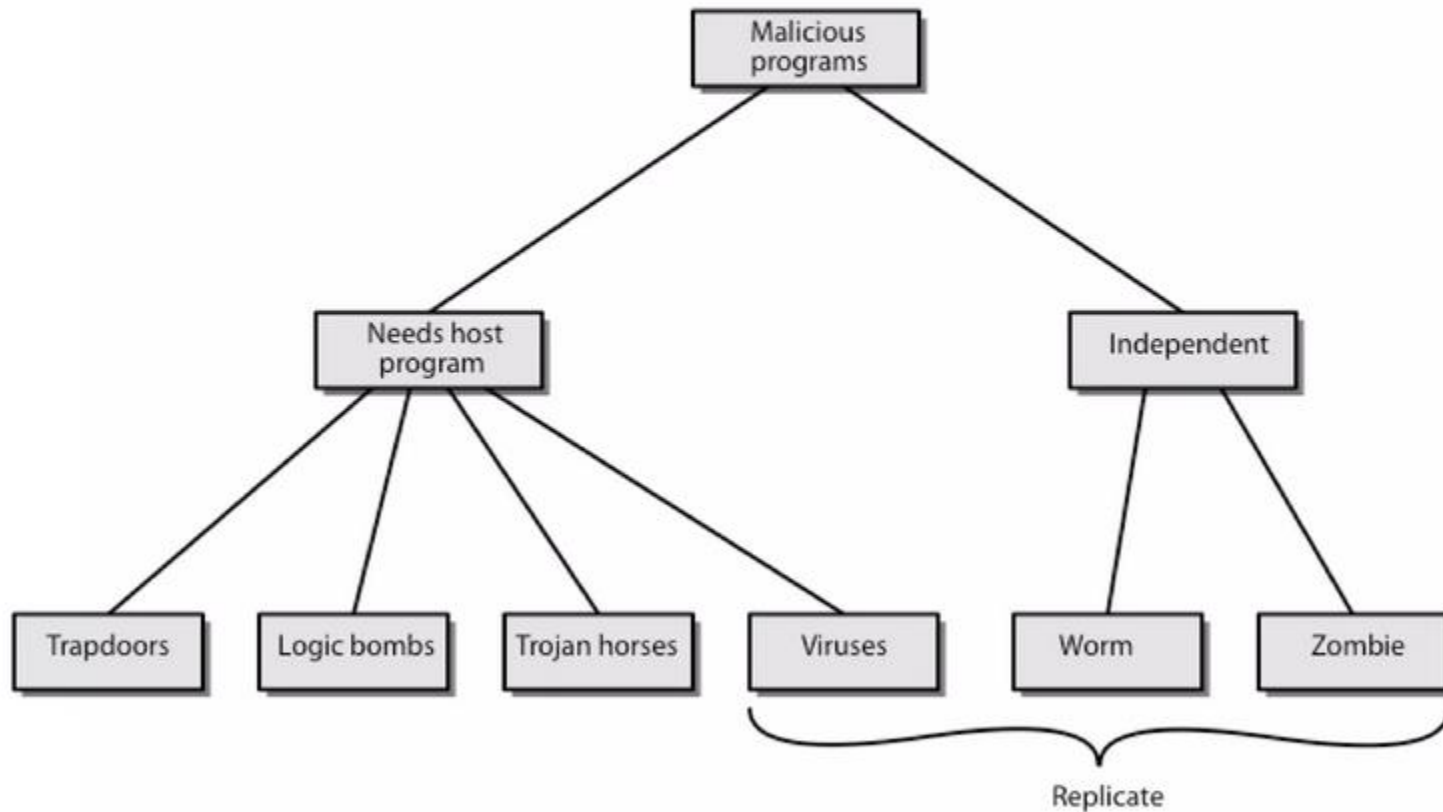
- Malware = Malicious + Software
- A Malware is a set of instructions that run on your computer and make your system do something that an attacker wants it to do.

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# Types of malware

- Virus
  - Backdoor
  - Trojan horse
  - Rootkit
  - Scareware
  - Adware
  - Worm
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# Malware according to spreading



# Trojan Horse

## ■ Agenda

- ❑ Introduction of Trojan Horse
- ❑ Objectives of Trojan Horse
- ❑ Types of Trojan Horses
- ❑ Trojan Horse Techniques
- ❑ Implementation with an example
- ❑ Prevention Methods

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# Trojan Horse Definition

- A Trojan describes the class of malware that appears to perform a desirable function but in fact performs undisclosed malicious functions that allow unauthorized access to the victim computer

# Trojan Horse : Introduction

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- A Trojan Horse program is a unique form of computer attack that allows a remote user a means of gaining access to a victim's machine without their knowledge.
- Trojan Horse initially appears to be harmless, but later proves to be extremely destructive.
- Trojan Horse is not a Virus.

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# Objectives of Trojan Horse Programs

**Trojan horses can exploit your system in various and creative ways including:**

- **Creating a "backdoor" that allows remote access to control your machine**
  - **Recording keystrokes to steal credit card or password information**
  - **Commandeering your system to distribute malware or spam to other computers**
  - **Spying on your activities by sending screenshots of your monitor to a remote location**
  - **Uploading or downloading files**
  - **Erasing or overwriting data**
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# Types of Trojan Horses

The EC Council groups Trojan horses into seven main types

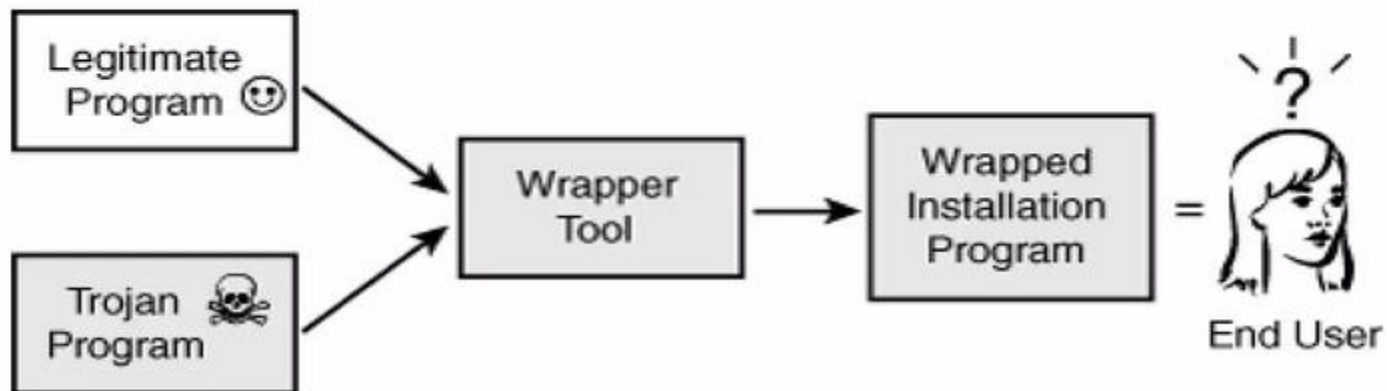
- Remote Access Trojans
    - Subseven
  - Data Sending Trojans
    - Eblaster
  - Destructive Trojans
    - Hard Disk Killer
  - Proxy Trojans
    - Troj/Proxy-GG
  - FTP Trojans
    - Trojan.Win32.FTP Attack
  - security software disabler Trojans
    - Trojan.Win32.Disabler.b
  - denial-of-service attack (DoS) Trojans
    - PC Cyborg Trojan
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# Trojan Horse Techniques

- Alter name of malicious code on system.
- Create a file name to obscure the file's type.
  - just\_text.txt.exe
- abcd.shs where by default the shs file will not be displayed in the system"

# Trojan Horse Techniques

- Create another file and process with same name eg. UNIX init process.
- Combine malicious code with an innocuous program



# Prevention of Trojan Horse Programs

- Install latest security patches for the operating system.
- Install Anti-Trojan software.
  - Trojan Hunter
  - A- Squared
- Install anti-virus software and update it regularly
- Install a secure firewall
- Do not give strangers access (remote as well as physical) to your computer.
- Do not run any unknown or suspicious executable program just to "check it out".
- Scan all email attachments with an antivirus program before opening it.

# Prevention of Trojan Horse Programs

- Do regular backup of your system.
- Do not use the features in programs that can automatically get or preview files.
- Do not type commands that others tell you to type, or go to web addresses mentioned by strangers.
- Never open instant message (IM) attachments from unknown people.
- Do not use peer-to-peer or P2P sharing networks, such as Kazaa, Limewire, Gnutella, etc. as they do not filter out malicious programs hidden in shared files.
- Educate your coworkers, employees, and family members about the effects of Trojan Horse.
- Finally, protection from Trojans involves simple common sense