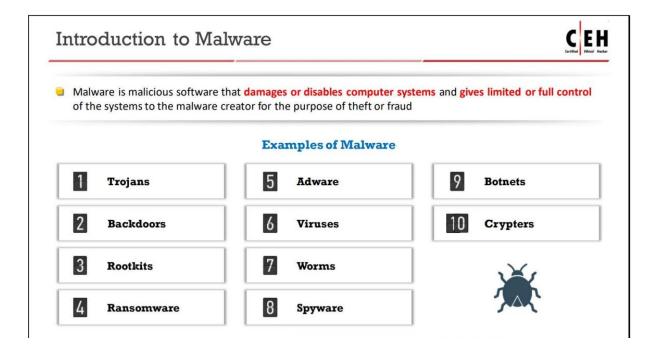
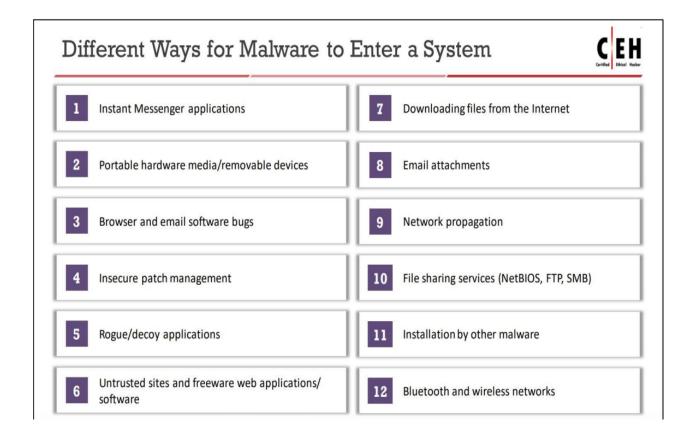
### **Malware Threats**



Malware is a software that gets into the system without user consent with an intention to steal private and confidential data of the user that includes bank details and password. They also generate annoying pop-up ads and makes changes in system settings.

They get into the system through various means:

- 1) Along with free downloads.
- 2) Clicking on suspicious link.
- 3) Opening mails from malicious source.
- 4) Visiting malicious websites.
- 5) Not installing an updated version of antivirus in the system.



# Purpose of Malware

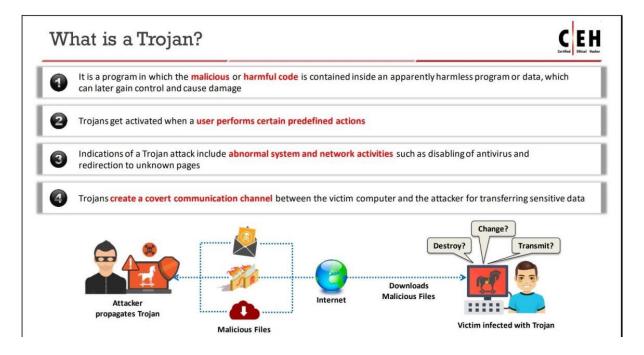
- 1. To steal passwords
- 2. To steal personal data
- 3. Banking info
- 4. Revenge
- 5. Spy
- 6. To delete sensitive data
- 7. To hijacking into computer

Malware Component	Description
Crypter	Software that protects malware from undergoing reverse engineering or analysis, thus making the task of the security mechanism harder in its detection
Downloader	A type of Trojan that downloads other malware from the Internet on to the PC. Usually, attackers install downloader software when they first gain access to a system
Dropper	A type of Trojan that covertly installs other malware files on to the system
Exploit	A malicious code that breaches the system security via software vulnerabilities to access information or install malware
Injector	A program that injects its code into other vulnerable running processes and changes how they execute to hide or prevent its removal
Obfuscator	A program that conceals its code and intended purpose via various techniques, and thus, makes it hard for security mechanisms to detect or remove it
Packer	A program that allows all files to bundle together into a single executable file via compression to bypass security software detection
Payload	A piece of software that allows control over a computer system after it has been exploited
Malicious Code	A command that defines malware's basic functionalities such as stealing data and creating backdoors

## **Types of Malwares**

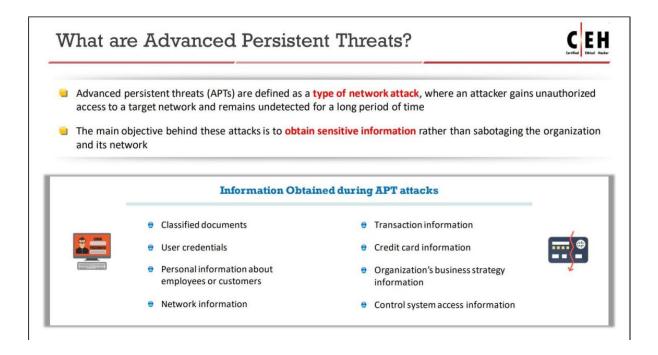
- 1. Computer virus Computer virus refers to a program which damages computer systems and/or destroys or erases data files. A computer virus is a malicious program that self-replicates by copying itself to another program. In other words, the computer virus spreads by itself into other executable code or documents. The purpose of creating a computer virus is to infect vulnerable systems, steal user sensitive data. Hackers design computer viruses with malicious intent and spray on online users by tricking them.
- 2. Worm A worm is a destructive program that fills a computer system with self-replicating information, clogging the system so that its operations are slowed down or stopped. Types of Worms Email worm, Internet worm and Payloads.

- 3. Logic Bomb A logical bomb is a destructive program that performs an activity when a certain action has occurred. These are hidden in programming code. Executes only when a specific condition is met, e.g. Jerusalem.
- 4. Trojan Trojan is a destructive program. It usually pretends as computer games or application software. If executed, the computer system will be damaged. Trojan Horse usually comes with monitoring tools and key loggers. These are active only when specific events are alive. These are hidden with packers, crypters and wrappers.

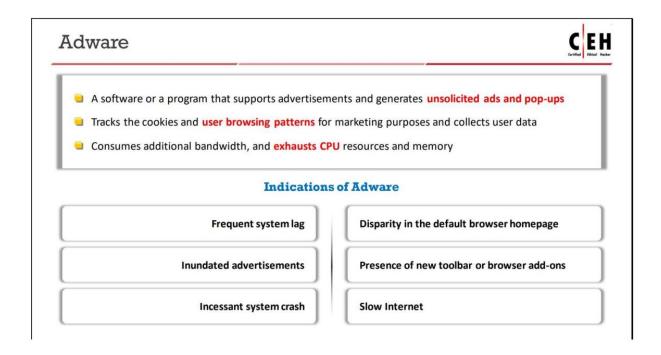


- 5. Rootkit Collection of tools that allow an attacker to take control of a system.
- Can be used to hide evidence of an attacker's presence and give them backdoor access.
- Can contain log cleaners to remove traces of attacker.
- 6. Advanced Persistent Threat An advanced persistent threat (APT) is a covert cyber-attack on a computer network where

the attacker gains and maintains unauthorized access to the targeted network and remains undetected for a significant period. During the time between infection and remediation the hacker will often monitor, intercept, and relay information and sensitive data.

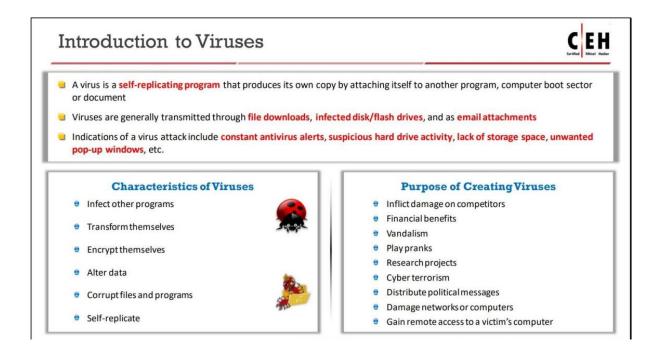


7. Adware — Adware, a contraction of 'advertising-supported software', displays unwanted and sometimes malicious advertising on a computer screen or mobile device, redirects search results to advertising websites, and captures user data that can be sold to advertisers without the user's consent.



8. Spyware – Spyware is a form of malware that hides on your device, monitors activity, and steals sensitive information like financial data, account information, logins, and more. Spyware can spread by exploiting software vulnerabilities or else be bundled with legitimate software or in Trojans.

### Virus



Viruses are the storage of modern computing. A computer virus is a type of malicious computer program that replicates itself and adds its own code when executed. When the replication process is complete, this code infects the other files and programs on your system. These computer viruses exist in a variety of types, and each of them can infect a device in a unique way.

### Ransomware

Ransomware is a type of malware that permanently block access to the victim's personal data unless a ransom is paid.

While some simple ransomware may lock the system without damaging any files.

