MCSE 568

Malware

"Malware" is short for "malicious software" computer programs designed to infiltrate and
damage computers without the users consent. "Malware"
is the general term covering all the different types of
threats to your computer safety such as viruses, spyware,
worms, trojans, rootkits and so on.

These malicious programs can perform a variety of functions, including stealing, encrypting or deleting sensitive data, altering or hijacking core computing functions and monitoring users' computer activity without their permission.

(Types of Malware)

Virus Worms Trojan Ransomware Spyware Adware



WHAT IS VIRUS?

Virus is a program or Software.

A computer virus is a type of malicious software that, when executed, replicates itself by modifying other computer programs and inserting its own code. When this replication succeeds, the affected areas are then said to be "infected" with a computer virus

Affected Files

Document or Text files.

Image files.

Videos files.

Audio files.



Vital Information Resources Under Seize.

First PC Virus: ALK CIONER

- Affects the boot floppy disk
- found in 1982
- OS was DOS 3.3
- Apple II

Elk Cloner:

The program with a personality

It will get on all your disks
It will infiltrate your chips
Yes it's Cloner!

It will stick to you like glue
It will modify ram too
Send in the Cloner!

First Network Virus: Creeper

- Affects ARPANET
- found in 1970

PM THE CREEPER, CATCH ME IF YOU CAN



2. Worm: A worm virus is a malicious, self-replicating program that can spread throughout a network without human assistance. It full the memory space.

It comes from

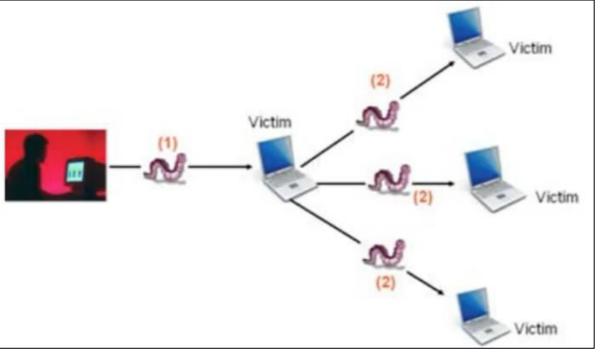
- Downloading
- Internet Surfing
- Email

Protect PC against Worm

Making sure that your computer has all the latest updates installed is the best defence against worms







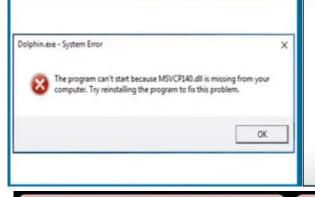
Infect Computers in the network or slow down the network

3. Trojan horse: A **Trojan horse**, or Trojan, is a type of malicious code or software that looks legitimate but can take control of your computer. A Trojan is designed to damage, disrupt, steal, or in general inflict some other harmful action on your data or network.

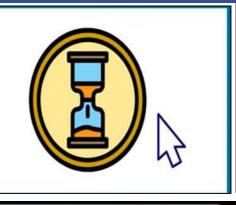
When you install a fake software then Trojan horse can be installed



Probable Symptom of Trojan virus









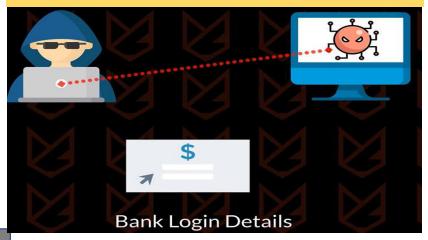
- 1. System Errors
- 2. Strange Pop-ups 3. Slow Computer 4. Strange Behavior

How harmful Trojan virus is

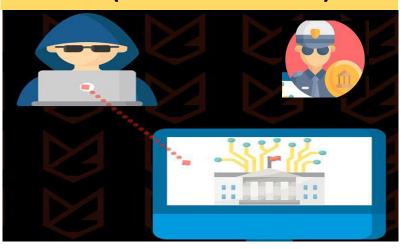
1. Steal confidential files



2. Steal pin/password



3. Illicit Activities using hacked machine (arrest hacked user)





How to Remove Trojan virus

1. Run MS Defender Scan

Start->MS Defender Scan>Virus & Protection->Full Scan

2. Delete Temporary Files

Start->Disk Cleanup>Select Temp Files

3. Remove System Restore Point

Start->Create Restore Point->Configure->Delete

4. Reset Browser Settings

Google Chrome Menu->Settings->Advanced->
Reset and Cleanup->Restore Default Settings

5. Scan PC with AntiMalware

Use MalwareFox to do it

https://www.malwarefox.com/



4. Ransomware: It iss a type of malicious software that infects a computer and restricts users' access to it until a ransom is paid to unlock it. Ransomware variants have been observed for several years and often attempt to extort money from victims by displaying an onscreen alert.



How to Remove

First, identify the type of attack and file extension, the following website can help in this purpose, https://www.nomoreransom.org/en/index.html
Secondly, use the following application to decrypt infected files



AVAST: Alcatraz Decryptor, Bart Decryptor, Crypt888 Decryptor, Hidden Decryptor, Noobcrypt Decryptor and Cryptomix Decryptor

Bitdefender: Bart Decryptor CERT

Polska: Cryptomix / Cryptoshield decryptor

CheckPoint: Merry X-Mas Decryptor and BarRax Decryptor

Eleven Paths: Telefonica

Cyber Security Unit: Popcorn Decryptor.

Emsisoft: Crypton Decryptor and Damage Decryptor.

Kaspersky Lab: Updates on Rakhni and Rannoh Decryptors.

5. Spyware: It is any software that installs itself on your computer and starts covertly monitoring your online behavior without your knowledge or permission. Spyware is a kind of malware that secretly gathers information about a person or organization and relays this data to other parties

6. Adware: It is a form of malware that hides on your device and serves you advertisements. Some adware also monitors your behavior online so it can target you with specific ads.

How to prevent malware

- Keep your computer and software updated. ...
- Use a non-administrator account whenever possible. ...
- Think twice before clicking links or downloading anything. ...
- Be careful about opening email attachments or images. ...
- Don't trust pop-up windows that ask you to download software. ...
- Limit your file-sharing.

See live Cyber Threat https://threatmap.checkpoint.com/



