COMPUTER VIRUSES

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Computer viruses are the computer programs, which have ability to spread themselves widely from one computer to another and multiple their own numbers with different side effects. They are mainly responsible for disruption and destruction in computer system. They ca create serious problems economically and physically to computers and data stored in computers virus.

There are different options of the people about the origin and spread of such virus. Most of the people believe that the virus was first created by Dr. Frederick B. Cohen as a part of his thesis in an effort to navigate the way to defend Self multiplying system that may be hamper the computer system. However, some of the Critics state that, the virus was discovered before the period when Dr. Cohen was doing his research his topic. There is no any availability of accurate proof on the origin of virus.

There are various kind of viruses according to their behavior and nature. Some of them are enlisted below:

- Boost sector virus

These type of virus are mainly responsible for their behavior of taking control when you start or boot your computer.

- Web scripting Virus

This type of viruses mainly attacks on web browser and are responsible foe exploitations of codes in websites and web pages.

- Browser hijacker

This is a malware program that modifies web browser setting and directs users to kind of website or webpages which the users have not intended to visit on.

- File infector virus

This virus are generally attached with executable codes in program such as computer games and word processor. These viruses can spread to other files and programs as well as into networks that utilize infected and programs.

Computers virus are the sins for computers. They negatively effect computer system on every possible way. It is mainly responsible to show down the computer systems. It may initially show some weird signs and message and may disrupt on functioning of programs and sites.

Viruses have their own distinctive natures and characters, which are their identify. We can know how dangerous or normal are the viruses are from their behavior. Some of their distinctive nature are enlisted below:

- They are finite in nature.

- They can be temporarily executed. It has normally one gigabyte download capacity per day.

- They cannot reproduce new viruses.

- Once they are removed from computer system, they can be Again seen in the system.

- Consumption of the kind of virus can introduce new viruses to computer system.

Viruses are not reproduced themselves. They are somehow Discovered and spread from one system to another worldwide and it's the main problem in cyber world in today's world. They are mainly spread to computer system because of human's fault. Some of the spreading ways of viruses are:

. Downloading untrusted contents from sites,

. Using unsafe USB.

. Using effected apps from untrusted devices,

. Sharing files from unsafe etc.

Virus get spread because of human mistakes and should be taken care by human themselves. At first person should determine the virus free equilibrium state of their system where there is zero presence of virus. Such state means the

state of the system without any infection from the virus. After that they should be careful about what they are using on site and apps. They should be more careful about the permission granted on sites. They should never trust any device or locations without their proper examination. If such measures are applied, then there will be nothing to worry about for the negative effect of computer virus.

REFERENCE LIST

1. Schneider, W. Computer viruses: when they are, how they work, how they might get you and how to control then in academic institutions. Behavior Reach Methods, Instruments, and Computer 21, 334-340 (1989). http://doi.org/10.3758/BF03205604
2. High FICS, FACM, H.J. (1997). A history of computer viruses – introduction. Computer and security, 16(5), 412-415. https://doi.org/10.1016/S0167-4048(97)82245-6
3. Huang, C.Y., Lee, C.L., Wen, T.H., and C.T. (2013). A computer virus spreading model based on resources limitations and interaction costs. The Journal of system and software, 86(3), 801-808. https://doi.org/10.1016/j.jss.2012.11.027
4. Ren, J, and XU, Y. (2017). A compartmental model for computer virus propagation with kill signals. Physica A, 486, 446-454. https://doi.org/10.1016/j.physa.2017.05.038