

Computer Virus - Introduction, Types Notes PDF

A computer virus is a malicious computer program that can destroy your computer within seconds. There are different types of viruses available that can destroy the smart and perfect working of a computer. The malicious program can replicate itself once it is installed on the computer. The code is highly malicious as it is capable of destroying the files by infecting them quickly. The symptoms of a dark spot on the display screen signal the presence of viruses in the computer. It can destroy the programs and affects the functioning of the computer. Computer viruses can affect our computers differently. The types of computer viruses and the effects of computer viruses are addressed here. The readers can also come across the best strategy to answer the question of how to prevent computer viruses.

What is a Computer Virus?

A computer virus is a program that can be easily inserted into the system with the aim of the destruction of certain programs. Computer viruses are highly capable as they can damage our devices and files. Computer viruses can contaminate the files without giving a chance for the proper retrieval of the necessary information. The virus is highly capable of replication and reduplication and it can modify itself. The computer virus can modify the other computer programs available in the system and penetrate its coding. The code once inserted can spread fast and massive destruction of the data and files happens within a fragment of seconds. The whole device may ultimately crash.

Computer viruses are a matter of concern for users across the world. Computer viruses can use damage billions annually. It is a matter of great concern. Computer viruses affect programming. It is impossible to be visible with naked eyes. But some symptoms can help the users to identify the presence of viruses. The symptoms confirming the presence of the virus in your computer include.

If a virus is present in your system, it takes time to open up many of the applications. The computer works slowly in such cases. The speed of the system decreases

Too many pop up windows on the display screen indicates the presence of the virus affection

The self-execution of the programs may happen. Many of the programs may start function in the background of the system and you will be unaware about its working.

The accounts will be hacked and the sites which are protected with the password can be cracked and you will be logged out by itself.

The entire system stop working smoothly. The system may crack down all of a sudden.

Types of Computer Virus

Refer to the below list to know about the list of the different types of viruses.

- **Boot Sector Virus** – One of the dangerous viruses which can contaminate the boot sector of floppy disks or the Master Boot Record (MBR) of hard disks. The Boot sector incorporates the entire files. The Boot sector is important as it contains the files which are mandated to initiate the Operating system of the computer. The virus can overwrite the existing program and copy itself into the other part of the disk.

- **Direct Action Virus** – This type of virus links itself directly to a .exe or .com file and destroys the device. It enters into the file and starts its execution which is in other words called the Direct Action Virus. Once inserted and installed, it remains hidden and can be considered a non-resident virus.
- **Resident Virus** – A virus that preserves itself in the memory of the computer. It is capable of infecting other files and the originating program stops working. The virus is hard to remove from the system as it is unable to locate. It hides very well in the memory of the system and destroys it completely.
- **Multipartite Virus** – A virus that can bombard the boot sector and the executable files of an already contaminated computer together is called a multipartite virus. This virus can facilitate cyber crimes as the system can be completely hacked by the insertion of the virus.
- **Overwrite Virus** – **These are the most harmful viruses.** It can remove the current program and substitute it with the adversary code by overwriting it. The host code can be entirely replaced with the harmful code.
- **Polymorphic Virus** – **This type of virus** is disseminated through spam and infected websites. the viruses are too complex and are difficult to notice. The presence cannot be detected easily. They construct a modified or morphed version of the current program. It can destroy the running code and replace it with the harmful code of the virus.
- **File Infector Virus** – This virus first infects a single file and then subsequently unfurls itself to further executable files and programs. The virus can be infected through downloaded games and word processors.
- **Spacefiller Virus** – **This is considered a rare** type of virus. the specialty of ten viruses is that it is capable of filling the space in a program or a file with the available source of viruses. This is thus named cavity virus. It affects the size of the file and is unidentifiable.
- **Macro Virus** – A virus registered in the identical macro language as employed in the software program is known as the macro virus. it infects directly when a word file is opened in the computer at the time of the execution of the virus. The emails can be notorious for carrying these viruses across.

How To Protect Your Computer from Virus?

Your computer can be protected from the virus if you are willing to take the safety measures which include the download =ing, and installation of the anti-virus software. the antivirus software can help the computer to detect hidden malicious viruses and save your computer from destruction. An antivirus software

consist of a set of programs that can catch and terminate all the harmful and malicious software from your device. The commonly used anti-virus software are

- Kaspersky Antivirus
- AVAST Antivirus
- Comodo Antivirus
- Norton Antivirus
- F-Secure Antivirus
- McAfee Antivirus

