



SPECIAL POINTS OF INTEREST:

- **What is a Virus?**
- **10 Shocking Facts!**
- **FIRE~
CRACKER
DEAL!**
- **Hot Summer Deal!**

Computer & Networking Technologies, LLC

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What is a Virus?

A virus is a computer program that is designed to replicate itself from file to file on a single computer. Viruses spread quickly to many files within a computer, but they do not spread between computers unless people exchange infected files over a network.

By 1990, there were roughly 50 known computer viruses. During the late 1990s, the number of viruses skyrocketed more than 48,000! Despite the many thousand virus strains that exist, very few viruses have found their way out of research labs to end-user computers. Based on industry statistics, of the more than 48,000 known computer viruses, only 200 to 300 are in general circulation at any one time.

Viruses are classified by the type of file or disk that the virus infects:

- Boot viruses attach themselves to hard drives. When a user boots from an infected hard drive, the virus is activated and the computer becomes infected.
- Application viruses spread from one application to another on the computer. Each time an infected application program is run, the virus takes control and spreads to other applications.
- Macro viruses spread through documents, spreadsheets, and other data files that contain computer macros. A macro is a small, self-contained program that is embedded directly within a document or spreadsheet file. Typically, macros are used to automate simple computer tasks such as summing a set of numbers in a spreadsheet. Modern macros are powerful enough to copy themselves between documents or spreadsheets.
- Script viruses infect other script files on the computer. Script viruses, which are written in high-level script languages such as Perl or Visual Basic, gain control when a user runs an infected script file.

A typical computer virus works as follows: First, the user runs infected program A. Program A immediately executes its viral logic. The virus locates a new program, B, that it thinks it can infect. The virus checks to see if the program is already infected. If program B is already infected, the virus goes back to locate another program to infect. If it is not already infected, the virus appends a copy of its logic to the end of program B and changes program B such that it, too, will run the malicious logic. The virus then runs program A so the user does not suspect any malicious activities.

Viruses can be written in numerous computer programming languages including assembly language, scripting languages (such as Visual Basic or Perl), C, C++, Java, and macro programming languages (such as Microsoft's VBA).



TEN

SHOCKING FACTS ABOUT COMPUTER VIRUSES

1

70%

virus writers work under contract for the Organised crime syndicates



2

40%

of US households are affected by computer viruses



3

90%

of emails contain malware



4

\$38.5

MyDoom was the fastest spreading virus ever created. It did the most economic damage estimated at USD **\$38.5 billion**

5

Amazon.com brand was the most exploited target for phishing attacks, followed by **Apple and ebay.**



6



Virus writers are often **children** who wrote to experiment their programming skills.

7



6,000 new viruses are created every month



8

US is at the highest risk of virus attack, followed by **Russia Federation.**



9



You can't get a virus simply by reading email. It is only activated when you **click a link or open an attachment.**

10



1 in 14 programs downloaded is **malicious.**



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FIRECRACKER DEAL!

Intel Pentium Core 3.2 GHz Processor

8Gb RAM

120Gb Solid State Hard Drive

DVD-RW Drive

On Board Video and Integrated Sound

10/100/1000 Ethernet

Micro-Tower Case

104-Key Keyboard and Optical Scroll

Mouse

20" LED Monitor

Microsoft Windows 7 Pro 64-Bit

One Year Warranty



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- | | | |
|---------------------------------------|------|-----------|
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| • Card Reader | add: | \$ 20.00 |
| • Upgrade from 8Gb to 16Gb RAM | add: | \$ 69.00 |
| • Microsoft Office Home/Student 2016 | add: | \$ 159.00 |
| • Microsoft Office Home/Business 2016 | add: | \$ 239.00 |
| • COMPUTER WITHOUT MONITOR | | \$ 679.00 |

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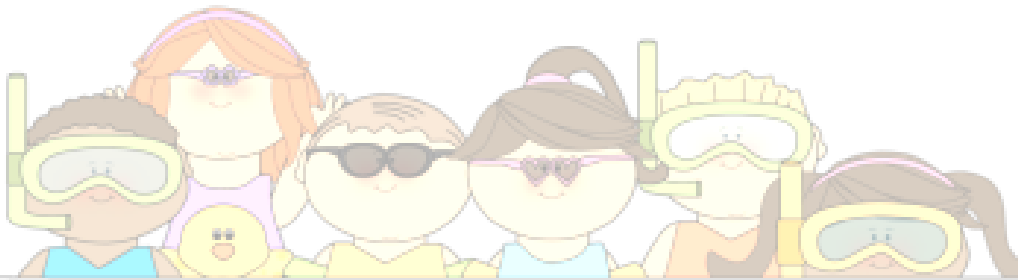
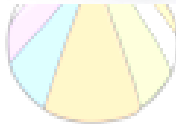
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Hot Summer Deal!



- ♦ **Lenovo Thinkpad Edge E560 Laptop**
- ♦ **Intel I5-6200U 2.3 GHz Processor**
- ♦ **8GB DDR3 RAM**
- ♦ **240 GB Solid State Hard Drive**
- ♦ **DVD+/- RW Drive**
- ♦ **10/100/1000 Network Card and Wireless N**
- ♦ **3USB and 1 HDMI Port**
- ♦ **Sound & Speakers; MP Webcam**
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- ♦ **Microsoft Windows 7 Pro 64 Bit/ Windows 10**
- ♦ **One Year Manufacturer's Warranty**



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