

CHAPTER # 2 NETWORK AND COMMUNICATION
8 CALSS NOTES

Unit no 2 :-

Computer Security threats
Give brief Answers :-

1. List some effects/indicators of security threats?

- The computer run slower other than usual.
- The computer locks up or stops responding.
- The computer suddenly restarts on its own.
- Frequently used programs become suddenly slow to load and operate.
- Applications and disk drives are suddenly inaccessible.
- Unusual error messages appear.
- Antivirus software is disabled or does not run.

ii- Differentiate between a virus and a worm.

Ans. A computer virus is a program written intentionally

not to alter the way a computer operates, without the permission or knowledge of the user but computer worms are malicious program that replicate and spread independently and across the computer.

3. How virus and worms spreads through e-mail attachments?

Ans:- E-mail viruses distribute themselves automatically by e-mail. These virus require the user to double-click on the attachment containing virus. This causes the malicious code to mail itself to other people from that computer. The best defense against e-mail viruses is to never open an unknown e-mail.

4. Who is a hacker? What can a hacker do?

Ans:- People who indulge themselves in computer hacking activities are called Hackers. Hackers are the computer experts who use their expertise for malicious purposes.

Hackers Steal:-

- Client or customer information
- Credit card details and social security numbers; for identity fraud or theft.
- Passwords
- E-mail addresses, which may be used for spamming.

5. How Adware affect the working of a computer?

Ans:- Adware is a software which automatically plays, displays, or download advertisement to a computer silently without user's knowledge. They record user's behaviour on the Internet, display ads, and can even download other malicious software on to the computer. If an Adware messages is shown it may be harmful when accessed.

6. Name different type of viruses.

Ans:- Example of virus are: NYB, Anti Exec, slowcode, FRODO, Nim 95 and Zennit A etc.

7. What is an Antivirus?

Ans:- Antivirus software is a computer program that detects, prevents and takes action to deactivate or remove malicious programs (Virus, Worms, Adware etc).

Give detailed Answers:-

1. Explain different threats to the security of computer?

Ans:- Computer system have many threats ranging from error harming stored data, information or corrupting programs installed on the computer. The following are some common threats to computer.

- Virus
- Hackware
- Worms
- Adware

1. Virus :-

Computer virus is the most common and well known computer security threat. A computer virus is a program written willingly to alter the way a computer operates with the permission or knowledge of user. a virus may:

- Damage or delete files
- Erase data in hard disk
- Cause erratic system behaviour

2. Worms :-

Computer's worm are malicious programs that replicates and spread independently without user action and harm the computer. Worms can also spread by copying themselves from disk to disk or by e-mail.

3. Adware :-

Adware is software which automatically plays, displays, or download advertisement to a computer usually without user's knowledge. These advertisement can be in the form of Pop-up. They record user's behaviour on the internet, display ads and can even download malicious software on to the computer.

Hackers :-

People who indulge themselves in computer hacking activities are called Hackers. Hackers are computer experts who use their expertise for malicious purposes.

Hackers Steal :-

- Client or customer information
- Credit card details and social security number for identity fraud or theft.
- Passwords
- E-mail address, which may be used for spamming.

2. Explain various way through which security threats spread in computers.

Ans:- There are different ways through which a virus, worms and Adware spread from one computer to the other computer.

- Infected flash drives
- E-mail attachments
- Suspecting insecure website
- Installing pirated

Infected flash drives :-

Flash drives and disks are convenient, are the main sources of spreading virus among computer. Once an infected flash drive or a disk is connected to healthy computer, it become infected with virus.

E-mail Attachment:-

E-mail viruses distribute themselves automatically by e-mail. These viruses require the user to double-click on the attachment containing viruses. This causes the malicious code to mail itself to other people from that computer.

Suffering Insecure website:-

These website engage in questionable or unethical practices and attempt to:

- Automatically access the computer when user visit them.
- Install Adware that may cause a flurry of pop-ups to appear on the screen.

Installing Pirated Software:-

Pirated software can threaten the safety of computer users. These software products may be used to steal personal information, load a computer with viruses, engage in activities which can harm the computer.

Give steps to update the virus definition of antivirus software,

1. Open the Norton Antivirus - you can find it in your task bar in start menu.
Click "Options" on the top of window

3. Enable live update then click on "Apply"
4. Now all the updates will be downloaded automatically by Norton.

4- What is meant by scanning computer and what are the steps to scan a computer?

Ans:- Scanning the computer for threats like virus, worms, adware, etc. is very important to keep a computer system in good working condition. It helps to protect a computer from different computer security threats.

Scanning computer using AVG antivirus :-

Follows these steps to scan the computer using AVG antivirus software. Run AVG antivirus software using the following steps.

- Click Start \Rightarrow Programs \Rightarrow AVG free Edition \Rightarrow AVG antivirus Free Edition for Windows.
- Click "Update Manager" for updates, (Internet connection is required). Always check for updates before scanning computer.
- Click "Scan now", as shown it will then start scanning the computer for infected files. This will take some time.
- The "Whole computer scan" option can be launched directly from the scanning interface by clicking on it. The scanning will start.

5. What is meant by definition updates? Why they are important? Explain.

Ans:- Virus definition contain the information about malware. While scanning a computer, Virus Definitions tell the antivirus software to recognize virus.

An antivirus Update, is an up gradation of already installed antivirus software. Update virus definition can protect and clean the computer from the most recent computer viruses and other security threats.