Computer Security Hazards

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- Let's look at these in more detail.

Malicious Softwares

Based on Method of Attack

- A worm is a standalone piece of malicious software that reproduces itself and spreads from computer to computer.
- A virus is a piece of computer code that inserts itself within the code of another standalone program, then forces that program to take malicious action and spread itself.
- A trojan is a program that cannot reproduce itself but masquerades as something the user wants and tricks them into activating it so it can do its damage and spread.

Malicious Softwares

Based on Purpose/Action

- A **spyware** is defined as malware used for the purpose of secretly gathering data on an unsuspecting user.
- A ransomware is a flavor of malware that encrypts your hard drive's files and demands a payment, usually in Bitcoin, in exchange for the decryption key.
- A rootkit is, a program or, more often, a collection of software tools that gives a threat actor remote access to and control over a computer or other system.

WannaCry Ransomware Attacks

 WannaCry is a ransomware worm that spread rapidly through across a number of computer networks in May of 2017. After infecting a Windows computers, it encrypts files on the PC's hard drive, making them impossible for users to access, then demands a ransom payment in bitcoin in order to decrypt them.

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- The WannaCry ransomware consists of multiple components. It arrives on the infected computer in the form of a dropper, a self-contained program that extracts the other application components embedded within itself.

Misconfiguration Risks

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- Default Operating system configurations like: cloud backup, some unsafe applications, etc.
- Software misconfigurations like: enabling macros is MS Office, enabling javascript in pdfs, etc.

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- Opening Email from unverified party. Going to unverified websites.
- Using out-dated technology.
- Using **public** networks like wifi hotspot to do personal transactions.

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- Use strong passwords or use password generators and managers.
- Don't open email or files from unvarified sources. Don't visit unvarified sites.
- Keep regular **offline** backup of your important files and folders. Use encrypted drives if you can.
- Avoid misconfiguraitions in your software-stack. Don't enable macros in MS Office.
- Don't login to any site or transfer any files when using public networks or computers.

Question and Answers



Slides for todays presentation can be downloaded from https://github.com/AnubhavMehraCS/Paper1Presentation/raw/master/ComputerHazard.pdf