

COMPUTER SECURITY

INTRODUCTION

- Impact of technology on people and how to protect ourselves on the Web.
- Most significant concerns:
- Privacy, Security & Ethics

PRIVACY

Concerns the collection and use of data about individuals

PRIMARY PRIVACY ISSUES → **ACCURACY**
→ **PROPERTY**
→ **ACCESS**

COMPUTER CRIME

- Computer crime is a type of crime that involves using a computer to do something illegal.
- It can include things like hacking, stealing private information, and causing damage to computer systems.

- Data Manipulation
- Denial of Service (DoS)
- Rogue Wi-Fi hotspots

internet scams are when someone tries to trick you into giving them your personal information or money by lying to you on the internet

TYPE OF SCAMS

- Chain Letter
- Auction Fraud
- Vacation Prize
- Advance Free Loan

MALICIOUS HARDWARE

- Zombies
- Rouge WiFi Hotspot
- Infected USB flash drives

Malicious software is a type of computer program that is designed to harm your computer or steal your personal information.

Malicious Program

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WORMS **VIUS** **TROJAN HORSE**

MEASURES TO PROTECT COMPUTER SECURITY

Principle measures to ensure computer security:

- Restricting access
- Encryption
- Anticipating Disaster

BIG DATA CONS

- Collecting public, but personally identifying information
- Spreading information without personal consent
- Spreading inaccurate information

TRENDS IN DATA PRIVACY

Recent trends seek to strike a balance between our data against our privacy:

- Cookies-less future
- Consumers demand more control over their data
- Addressing privacy with technology

PRIVACY THREATS

- Voluntarily done by the users (sharing information online)
- Web bugs, Spyware, Computer monitoring software & Anti Spyware program
- Hackers & Cybercrime

INTERNET AND WEB

- WHEN BROWSING WEB, CRITICAL INFORMATION IS USUALLY STORED IN :
 - HISTORY FILES
 - TEMPORARY INTERNET FILES(BROWSER CACHE)
 - COOKIES
 - PRIVACY MODE
 - WEB BUGS
 - SPYWARE

COOKIES

- First Party & Third Party Cookies
- Privacy modes in browsers

HISTORY AND TEMP FILES

- **HISTORY FILES** - Include locations or addresses of sites you have recently visited
- **BROWSER CACHE** - Saved files from visited websites - Offers quick re-display when you return to the site