

Computer Security Keeping you and your computer safe in the digital world.

Objectives

After completing this class, you should be able to:

- Explain the terms security and privacy as applied to the digital world
- Identify digital threats and know how to prevent them
- Know common methods for protecting your computer system and personal data

Definitions

- <u>Computer Threat</u>: Anything that can damage your computer or the information on it
- Computer Security: The measures you can take to avoid damage or data loss

Computer Privacy

- Ensuring your data, such as personal files and email, is not accessible to anyone without your permission
- Includes measures you can take to restrict access to your data and personal information both on your computer and the internet

Digital Threats

<u>Categories</u>

- Viruses, RootKits, Malware
- Spyware
- Online Scams
- Online Predators
- Identity Theft

Prevention

- Virus, malware, and spyware protection
- Password protection
- Prudence in giving out information

Viruses, Malware, Spyware

- Difference between Viruses, Malware, and Spyware
 - Malware = Malicious Software
 - non-specific; covers a wide variety of threats
 - Viruses = a program that copies itself and spreads through computers and files, locking down the machine
 - designed to wreck havoc and cause chaos
 - Spyware = software that collects your information without your knowledge and sends it back to the creator
 - designed to make money at your expense

Rootkits

- Designed to hide that a PC has been compromised
 - Allows malware to hide in plain sight by disguising themselves as necessary files
- Not harmful in and of themselves what they hide is!
- Notoriously difficult to detect so hackers can access the targeted computer without the user noticing
- Very difficult to remove

How Malware Spreads

- Clicking on a corrupted email attachment
- Clicking on a downloadable file from a website that contains a virus or spyware
- Clicking on a link in an email, on a website, or on a social networking site. The link redirects to a website that automatically forces the browser to download a piece of malware

Beware!

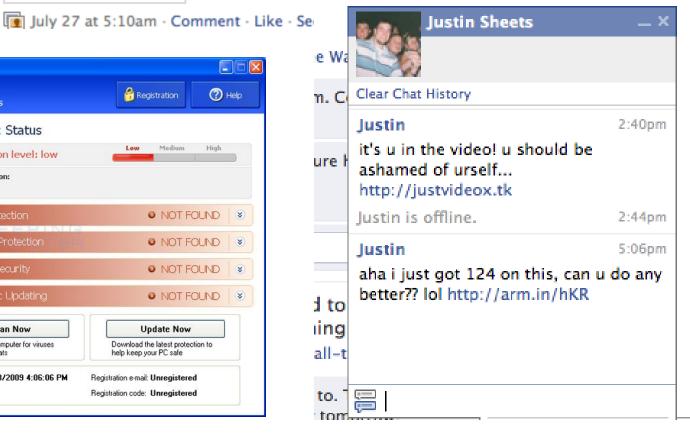
- Fake antivirus programs
 - Famous Examples: Security Suite, Internet Security 2010
- New toolbars or default search engines installed without your permission
- Homepage changes
- Suspicious file names (i.e., .mp3.exe instead of .mp3)
- Pop up windows you cannot stop
- Loss of control of your PC
- Redirects or new windows to sites you did not open



John Rundag Hey, 3 days ago I signed up at http://www.ipadcheck2010.info/ as a tester and today I got my iPad. All you need to do is to tell them your opinion about iPad and you can keep it forever. You should hurry since i highly doubt this is gonna last forever.







Prevention Tips

- Keep all your operating system and all software updated. Most virus and spyware attacks occur through security holes in popular software applications
- For your browser, use Firefox, Chrome or Safari rather than Internet Explorer (IE). Because IE is so popular, malware creators target security holes
- Don't click on any pop ups or ads offering you anything for free
- Know the name and display of your antivirus program

If something looks suspicious:

DO NOT OPENIT

Top Free Software

- Antivirus software that checks downloaded files & monitors websites for possible malware. Do not use more than one antivirus.
 - AVAST
- Manual scan that searches out rootkits and other potential problems and threats
 - Malwarebytes
- Spyware scanner to identify and remove spyware
 - Spybot Search & Destroy

Realities of the Digital World

- Deleting a post does not mean it disappears
- Digital content is easily forwarded and reposted
- Social networks & email providers do not make your private information private by default. It is up to you to look for the privacy settings
- Your online reputation has offline implications

Privacy In Social Networking

- Know the default privacy settings and how to change them
- You can control who sees what content, but it is easily forwarded by the tech savvy
- Assume what you post can be seen by everyone



Identity Theft

When someone uses your personal information without your knowledge, usually for monetary gain.

- Do not store personal financial information on laptops of USB/Flash drives
- Delete all personal information before disposing of computers, hard drives, or portable drives
- Review privacy policies
- Never give out your password or personal information, especially if the company contacted you to request it

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