Cybersecurity

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Internet crime

Malware

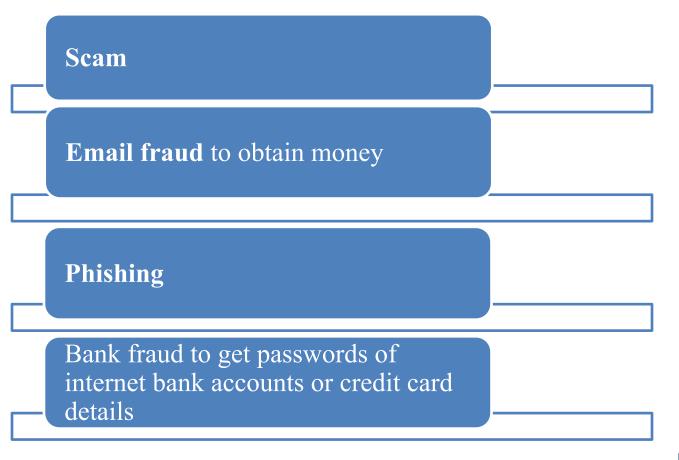
Preventative tips

Internet crime

The internet provides a wide variety of opportunities for communication and development, but it also has its dark side.

Crackers, or black-hat hackers, are computer criminals who use technology to perform a variety of crimes.

Internet-based crimes





Other examples of internet crime

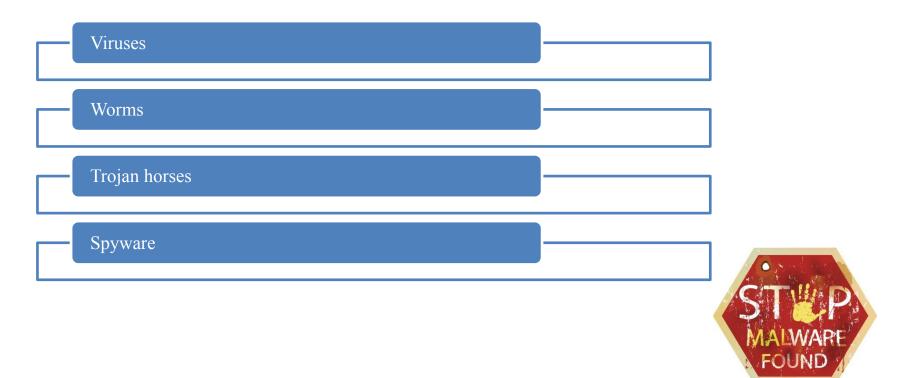
- Cyberstalking
- Online harassment or abuse mainly in chat rooms
- Piracy





Malware

Malicious software created to damage or alter the computer data or its operations.



Types of malware

- Viruses are programs that spread by attaching themselves to executable files or documents. Some viruses are designed to work at a particular time or on a specific date.
- Worms are self-copying programs that have the capacity to move from one computer to another without human help by exploiting security flaws in computer networks.



• Trojan horses are malicious programs disguised as innocent-looking files or embedded within legitimate software. They may create a backdoor to the computer which can be used to collect stored data.

Spyware, software designed to collect information from computers for commercial or criminal purposes. It usually comes **hidden** in **fake** freeware or **shareware applications** downloadable from the Internet.



Preventative tips

- Don't open **email attachments** from unknown people, take note of the file extensions;
- Run and update **antivirus programs**;
- Install a firewall;
- Make backup copies of your files regularly;
- Don't accept files from high-risk sources;
- Use a **digital certificate**, an electronic way of providing your identity.



Identify the internet crime

- Crackers try to find a way to copy the latest game;
- Half a million people automatically open an email they believe to be from their bank and happily send off their security details;
- This software's danger is hidden behind an attractive appearance. That's why it's often wrapped in attractive packages promising photos of celebrities;
- There is a particular danger in Internet commerce and emails. Many people believe they have been offered a special gift to find out later they have been deceived;
- 'Nimda' spreads by sending infected emails and is also able to infect websites, so when a user visits a compromised website, the browser can infect the computer.
- **Identify the types of crimes and suggest your solutions.**

You and computers



Answer questions about you

- 1. What do you do to prevent computer infections?
- 2. What do you do to keep you virus protection updated?
- 3. What should you do to improve your computer security?

• Do the quiz and find out your result.



More information

Think of the following statements. Are they true or false?

- 1. Keeping information locked is as important as locking a house or a car.
- 2. It's OK to use one and the same password for different websites.
- 3. There's more than 1 way to secure personal information.

Watch a video and check your predictions.

Video exercises

Ex. 1 Watch a video again and complete the gaps.



- 1. When it comes to information we tend to be less
- 2. Most of us have a huge amount of data on computers, smartphones, ______ and on paper.
- **3.** We need ______ for everything we use these days.
- 4. Criminals ______ usernames, passwords from ______ sites.
- 5. Using _____ passwords is important.
- 6. $\underline{}_{\text{to use the data.}}$ makes it almost impossible for criminals

Video exercises

Ex. 2 Watch a video and answer the questions.

- 1. What kind of address do encrypted websites have?
- 2. What does tailgating mean? What can be result of it?
- 3. Which software will prevent identity theft?
- 4. What is the first way to secure personal data?
- 5. Are the people always aware of everyday information profit?



Thanks for your attention