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## **THE HACKERS ATTACKS AND MODERN VIRUSES**

We live in a time when everyone has access to the Internet. For this reason, viruses and cyber attacks are becoming more common. 90% of them are massive attacks. They are aimed at infecting as many computers as possible. These include worms, trojans, phishing emails and many other malware. 9.9% is targeted attacks whose task is to hit a specific computer. And the list closes the list of cyber-weapon which share 0.1% of all attacks [3].

Let's look at one of the most popular types of attacks - phishing. Phishing is not specifically targeted and exists in many forms. For example, you may receive a letter to an e-mail with a proposal to familiarize yourself with the file you need to download to your laptop. You download this file and the next day you have less money in your bank account.

A more rare form of mass attacks is attacks through applications. Nowadays, hackers can hire a small staff and make a full program. For example, the sensational program "ancestry lookup", which offered to reveal your geniological tree by fingerprint. As soon as you brought your finger to the fingerprint scanner, a window appeared with the purchase of this application for \$ 100 and without having managed to remove your finger you successfully acquired it, so in smartphones payment confirmation works in this way.

In addition to the obvious goal viruses - the theft of your money, hackers also need your personal data (contact list and names), these data are sold to outside companies and later they call your phone number with an offer to buy something. But even after that, your gadget is still useful and hackers turn it into a bot and connect to the botnet. A botnet is a network of laptops or phones that can be used to get cryptocurrency or to participate in DDOs attacks. DDoS attacks are one of the hacker

weapons. Imagine a small store with thousands of people trying to buy something. the store will not be able to function normally, as well as sites. DDoS attacks force your computer and thousands of others to access the same site and it cannot withstand this pressure.

And this is not all the dangers on the Internet. Viruses penetrate into the computer due to not knowing and not taking the responsibility of the user. In our time, computer science lessons also need to talk about all these threats and then our computers will become less vulnerable.

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