

Analysis of Computer Attacks

Adrian-Cristian PLOIEȘTEANU

University Politehnica of Bucharest, Romania

ploiesteanu.adrian@yahoo.com

Abstract

An cyberattack on computers or computer networks is any attempt to expose, alter, disable, destroy, steal or gain unauthorized access to or make unauthorized use of an asset. A cyber-attack is any type of offensive maneuver that targets computer information systems, infrastructures, computer networks, or personal computer devices. Cyber-attack is a sensitive issue in the world of Internet security. Governments and business organisations around the world are using various types of tools and techniques to keep the business running, while adversaries are trying to breach security and send malicious software such as botnets, viruses, trojans etc., to access valuable data. Every day the situation is getting worse because of new types of malware emerging to attack networks. It is important to understand those attacks both before and after they happen in order to provide better security to our systems. This paper presents the main attacks on computer systems and the ways of combating them.

Keywords: cyber-attack, malicious software, security

References

- [1]. <https://www.itgovernance.co.uk/blog/different-types-of-cyber-attacks>.
- [2]. <https://www.wired.co.uk/article/ransomware-viruses-trojans-worms>.
- [3]. <https://health.usf.edu/is/blog/2018/02/27/malicious-intentions-the-virus-worm--trojan>.
- [4]. <https://blog.malwarebytes.com/threats/worm/>.
- [5]. <https://www.paloaltonetworks.com/cyberpedia/what-is-a-denial-of-service-attack-dos>.
- [6]. <https://us.norton.com/internetsecurity-how-to-catch-spyware-before-it-snags-you.html>.
- [7]. <https://www.kaspersky.com/resource-center/threats/adware>.
- [8]. <https://blog.netwrix.com/2018/05/15/top-10-most-common-types-of-cyber-attacks/>.
- [9]. <https://searchsecurity.techtarget.com/definition/cross-site-scripting>.
- [10]. <https://www.tpx.com/blog/cybersecurity-trends-2019/>.
- [11]. <https://www.information-age.com/10-cyber-security-trends-look-2019-123463680/>.