THE ENEMY KNOWS THE SYSTEM- CYBER SECURITY

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Abstract

Today Technology is destroying Technology; Cyber security aims at protecting the confidentiality, integrity, and availability of data and information. It requires a mind aware of the hackers, their motivations, the vulnerabilities, and how "risk-free" we actually are. This research paper aims to discuss following aspects of cyber security: definition, methods of committing cybercrime and its preventive measures. Also, this report will display statistical data showcasing rising cyber threats[3].

Introduction

When we can't afford to leave our house without the door lock, then how can we compromise when it comes to securing our confidential and private information?

In the contemporary world, where human craves for convenience at any cost, balancing the bridge between convenience and security is becoming more and more difficult.

Technology is successful in connecting the disconnected; on the other hand it is making clicks. Despite of the dangers of using technology it has sadly become our necessity.

The scope of cyber security is not only limited to IT sector but to various other fields as well. The emerging technologies from E-commerce to net banking require high levels of security. Since these technologies contain critical information of any individual their security has become a must thing. Amplifying and strengthening of cyber security adds on to a nation's economic well being and security[2].

The leitmotif of this paper is to spread the importance of cyber security and how crucial it is with the advancement of technology.

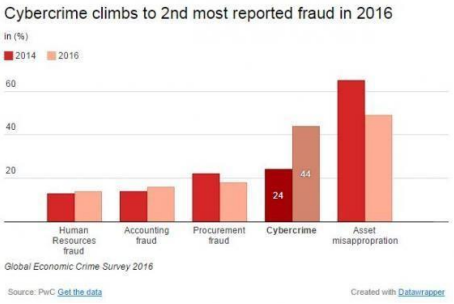
Defining Cyber Security-

Cyber security is an encyclopaedic term referring to securing the confidentiality, integrity and availability of networks, data and information [1].

Cyber security not only revolves around a rationale and safer approach towards protecting our data, but a mind thinking of how to fail the system, with an idea to notice the, un-noticed security problems.

Few methods of committing Cyber Crime are-

- **Email Bombing**- As the name suggests it involves bombarding the victim's (individual or company) mail address with number of mails, with a target to overflow the mailbox which may further lead tocrashing.
- **Salami Attacks**- When a number of data security attacks together, result in a crucial one it is referred to a Salami attack.
- **Denial of Service Attack**- This kind of an attack occurs when computer of the victim is flooded with enough and more requests which causes the system to crash. Due to DDoS the authorised end users are unable to access the desired site, orsystem.



[4] (dcc-nederland.nl)

The above statistics clearly shows that cybercrime is increasing leaps and bounds. It is a matter of concern for the whole world. This requires a logistic, safe and economical approach or else may lead to a nation's downfall. **How to protect your computer-** Advancement in technology commensurate with increase in cyber crime.

Some steps to safeguard your computers are-

- **Create strong Passwords-** a lengthy password containing combination of letters, special characters, digits[5].
- **Be careful what you download-** do not / never entertain an e-mail from unknown (people) as it may contain malicious

code[6].

- **Install and Update antivirus software-** your work is not over by just installing antivirus software, updating it ensures the protection[6].

In spite of being aware of more such preventive measures, users often tend to ignore the warning signs; not signing off, entering personnel details to a site that is not secured [7] etc. often make users an easy prey to the attacker.

Conclusion-

Cyber War, an upcoming threat that needs immediate action. Cyber security not only involves security by technical professionals but a joint effort put up by the government of the nation and of course the users. People need to be educated aboutvariousaspectsofthefield,andthe

small but necessary steps that make your system risk-free. Cyber crime if continuing unchecked may lead to dangerous consequences for the humanity and could end up in catastrophe for the world.

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