“Cyber Crime and Cyber Security: Different Sides of The Same Coin”

Renu Kumari¹, Dr. Umesh Kumar Srivastava²

¹Asst. Professor, Department of Computer Science, Patna Women’s College, Patna University, Patna, Bihar, India.
²Dept. of Mathematics, R.S.S. College, Chochahan, Muzaffarpur, B.R.A.B.U. Muzaffarpur, Bihar, India.

Abstract: Cybercrime is emerging a very serious threat in today’s world. The cyber criminals are always in a search to find out the new ways to attack the possible internet victims. Our attention is usually drawn on “Cyber Security” when we hear about” Cyber Crimes”. Thus Cyber Crime and Cyber Security can be treated as “Different sides of the same coin”.

Our cyber security research focuses mostly on combating cybercrime and protecting the social fabric.

The paper is an attempt to provide a glimpse of various types of cybercrimes prevalent in modern technological society and what steps can be taken to protect ourselves from these cybercrimes.

We focus on a case study of fighting cybercrime in India and Bihar; discuss problems faced.

Keywords: Cyber Crime, Denial of Service(DoS), Cyber Stalking, Phishing, Spoofing, Cyber, Criminals, CyberSecurity, IDS, DIDS

I. INTRODUCTION TO THE STUDY

Cybercrime is a criminal activity done using computers and the internet. It includes downloading
1. Illegal music files to stealing millions of dollars.
2. Non-monetary offenses-creating and disturbing viruses on other computers or posting confidential business information on the internet.

Cyber Security is the activity of protecting information and information systems with appropriate procedural and technological security measures.

II. OBJECTIVES OF THE STUDY

➢ To spread awareness of how Cyber Crime is threatening an individual’s or societies or nations security.
➢ To explain a clear picture of processes which are undertaken to minimize or defend cybercrimes.
➢ Acquire a sharp understanding of how cybercrimes can create an economic loss to a nation as well as detoriate global economy.

III. HYPOTHESIS

➢ Excessive Reliability on technology is the major reason behind the rapid increase of Cyber Crime and due to this very reason there is unawareness about Cyber Security.

➢ We hypothesize that each of these groups of predictors impact:
  o people’s decision to reduce online participation,
  o consumer behavior

We concluded that concern over cybercrime imposes greater opportunity costs in term of reducing online participation than actually experiencing cybercrime.

IV. METHODOLOGY

o Research Strategy: The results of the survey should be a representative sample of the total population.

o Research Questions: These questions provided a basis for the research in order to find the findthe awareness of Cyber crime and Cybersecurityamong respondents.

o Sample and Respondents: The primary target respondent was a working professional who was aware of the various computer crimes and security issues within his/her organization.

V. OBSERVATIONS

The observation from this research study highlights several facts.

1. Threat perception of cybercrime in India
2. Trends of cybercrime in India

3. Impact of cybercrime in India

4. Sectors prone to Cybercrime

5. Motivation for Cyber Attacks

6. Targets of Cyber Attacks

7. Measure taken to prevent Cyber Crime
CASE STUDY: INDIA

- ACCUSED IN RS 400 MILLION SMS SCAM ARRESTED IN MUMBAI
- CITY PRINCIPAL SEEKS POLICE HELP TO STOP CYBER CRIME
- UTI BANK HOOKED UP IN A PHISHING ATTACK
- ONLINE CREDIT CARD FRAUD ON E-BAY

CASE STUDY: BIHAR

- PATNA POLICE’S CYBERCRIME CELL STILL DEFUNCT
- CYBERCRIME CELL YET TO BE A REALITY IN STATE

STEPS TAKEN TO PROMOTE CYBER SECURITY IN PATNA
VI. CONCLUSION

A look to the future and roadblocks in the present

Cyber attackers have now taken advantage of the increasing popularity of mobile phone applications and games by embedding malware into them. Despite the increasing cyber threat risks, many people are not aware of cybercrimes.

Cyber threats can be hard to quantify in terms of likelihood and business impact. As a result, many people do not fully understand the nature of the threat and tend to inaccurately assume that cyber security a technical issue.

A way forward

Adopting a preventive approach towards cybercrime can reduce the number of cybercrimes and may not cause loss both for the individual as well as nation. So let’s secure ourselves and hope for “SECURED INDIA”. “India fights against Cyber Crime”

REFERENCES