Comparative Study of Cybercrime and Its Preventive Measure across Different Country

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Abstract— Cybercrimes are responsible for the interruption of normal computer functions and has been known to cause the downfall of many companies and personal entities. This research paper aims to discuss following aspects of Cybercrimes: the definition, why they occur, laws governing them, methods of committing cybercrimes, who they affect, and cybercrime prevention procedures. More specifically, this paper will delve into one main example of cybercrime “hacking”. This paper will delay into one main example of cybercrime.

1 INTRODUCTION

In our modern technology-driven age, keeping our personal information private is becoming more difficult. The truth is, highly classified details are becoming more available to public databases, because we are more interconnected than ever. Our data is available for almost anyone to sift through due to this interconnectivity. This creates a negative stigma that the use of technology is dangerous because practically anyone can access one’s private information for a price. Technology continues to promise to ease our daily lives; however, there are dangers of using technology.

2 IMPLEMENTATION


3 LAW OF CYBER CRIME

In this section of this paper well discusses law and legislation. That governs cyber crime in the united state will highlight some laws and let people know some has that out there to protect amendments to these law keep up with different advancement in technology

3.1 Which country
- Japan – 2.25%
- France – 2.35%
- Russia – 3.07%
- Germany – 3.35%
- India – 5.11%

3.1.1 Advantages
- Improved security of cyberspace.
- Increase in cyber defense.
- Increase in cyber speed.
- Allows more options to save data

3.1.2 Dis-advantages
- Improved hacker speed and ability.
- Interconnected computers.
- Improved viruses, malware and worms.
- Increase in “cyber warfare” possibly.
- More anonymity between hackers.

4 CYBER LAWS IN INDIA

A total of 422, 601 and 1,337 cases were registered under cyber-crime related sections of In INDIA information technology act 2000 deals with the Indian Penal Code in 2011, 2012 and 2013, respectively. The cybercrime activities /problems act 2000 has There has been an annual increase of more than 40 per cent both positive and negative aspects as well and referred as ITAA 2008.

5 PRESENT TRENDS OF CYBERCRIME IN INDIA

India is trying to implement the Digital India project to the best of its capabilities. The success of Digital India project would depend upon maximum connectivity with minimum cyber security risks. This is also a problem for India as India has a poor track record of cyber security. According to Home Ministry statistics, as many as 71,780 cyber frauds were reported in 2013, while 22,060 such cases were reported in 2012. There have been 62,189 incidents of cyber frauds till June 2014. In 2013, a total of 28,481 Indian websites were hacked by various hacker groups spread across the globe. The numbers of hacking incidents were 27,605 in 2012 and 21,699 in 2011.

6 US CYBER CRIME LAWS: AN EXORDIUM

The Wire Fraud Statute being the first law used to prosecute computer criminals in the USA. It was seen that the communication wires were used in international commerce to commit fraud. To overcome such US passed
the Law so as to prohibit the use of communication wires. This was an effective statute as it was to overcome defrauders trying to obtain money, property by false representation or promise; modus operandi being radio or television communication, signs or signals

6 1 Criminal Wrong

Section 65 – Tampering with computer Source Documents, imprisonment up to 3 years or fine which may extend to two lakh rupees or both.

Section 66 – Computer Related Offences with reference to section 43, punishable with imprisonment for a term which may extend to 3 years or with fine which may extend to five lakh rupees or both. This section has reference to IPC for some definitions.

7 CRIMINAL INTIMIDATIONS BY E-MAIL OR CHAT

Sec 506 – Punishment for criminal intimidation
Sec 507- Criminal Intimidation by an anonymous communication

- Online Sale of Drugs, NDPS Act
- Online Sale of Arms Act
- Piracy – In Copyright Act

8 CHILDREN AND ADOLESCENTS BETWEEN THE AGE GROUP OF 6 – 18 YEARS

The simple reason for this type of delinquent behavior pattern in children is seen mostly due to the inquisitiveness to know and explore the things. Other cognate reasons may be to prove them to be outstanding amongst other children in their group. Further the reasons may be psychological even. E.g. the BAL Bharati (Delhi) case was the outcome of harassment of the delinquent by his friends.

8.1 Types of criminal conduct in cyberspace

8.2 Cybercrimes on Social Media Sector

Government, business, universities use this platform to promote and communicate with each other. Social networking sites such as Face book, Twitter, LinkedIn and Instagram serve as a fertile ground for cybercriminals to launch new attacks. Users create semi-public profiles and can directly communicate with friends without restriction (Michael, 2014).

9 CYBER ETHICS

In Nigeria, Social networks have gained a very high ground in every sector. The banking industry,

Cyber ethics are nothing but the code of the internet. When we practice these cyber ethics there are good chances of us using the internet in a proper and safer way.

10 THE SOUTH AFRICAN EFFORT IN COMBATING CYBER ATTACKS

Since the mid-1990s, South Africa has taken the first steps to protect its information. It has passed legislation such as the South African Constitution of 1996 to protect privacy. In 2000, the PAIA (Promotion of Access to Information Act) No 2 as amended was passed to give effect to Section 32 of the Constitution, subject to justifiable limitations (PAIA Act 2000). These limitations are aimed at the reasonable protection of privacy, commercial confidentiality and good governance in a manner that balances the right of access to information with any other rights, including the rights in the Bill of Rights in Chapter 2 of the Constitution (SA Constitution 1996). Linked to this Act is the PAIA Reg 187 Regulations regarding the promotion of information of access to information (Government Gazette 2003).

10.1 The collaborative international cyber defense effort

Cyber warfare is an emerging form of warfare not explicitly addressed by existing international law. While most agree that legal restrictions should apply to cyber warfare, the international community has yet to reach consensus on how International Humanitarian Law (IHL) applies to this new form of conflict (Kelsey 2008). In particular, there is a need for an international consensus
on the due diligence criteria which have to be fulfilled by a State in order to avoid international responsibility for failing to protecting other sovereigns from cyber-attacks conducted from its territory.

11 ROLES OF SOCIAL MEDIA IN CYBER SECURITY
As we become more social in an increasingly connected world, companies must find new ways to protect personal information. Social media plays a huge role in cyber security and will contribute a lot to personal cyber threats. Social media adoption among personnel is skyrocketing and so is the threat of attack.

12 CYBER SECURITY TECHNIQUES
Access control and password security
The concept of user name and password has been fundamental way of protecting our information. This may be one of the first measures regarding cyber security.

12.1 Authentication of data
The documents that we receive must always be authenticated be before downloading that is it should be checked if it has originated from a trusted and a reliable source and that they are not altered. Authenticating of these documents is usually done by the antivirus software present in the devices. Thus a good antivirus software is also essential to protect the devices from viruses.

12.2 Malware scanners
This is software that usually scans all the files and documents present in the system for malicious code or harmful viruses. Viruses, worms, and Trojan horses are examples of malicious software that are often grouped together and referred to as malware.

12.3 Firewalls
A firewall is a software program or piece of hardware that helps screen out hackers, viruses, and worms that try to reach your computer over the Internet. All messages entering or leaving the internet pass through the firewall present, which examines each message and blocks those that do not meet the specified security criteria. Hence firewalls play an important role in detecting the malware.

12.4 Anti-virus software
Antivirus software is a computer program that detects, prevents, and takes action to disarm or remove malicious software program.

13 LISTS OF TOP 20 COUNTRIES WITH THE HIGHEST RATE OF CYBERCRIME
Each country lists 6 contributing factors, share of malicious computer activity, malicious code rank, spam zombies rank, phishing web site hosts rank, bot rank and attack origin, to substantiate its cybercrime ranking.

1. India
Share of malicious computer activity: 3%
Malicious code rank: 3
Spam zombies rank: 11
Phishing web site hosts rank: 22
Bot rank: 20
Attack origin rank: 19

2. Russia
Share of malicious computer activity: 2%
Malicious code rank: 18
Spam zombies rank: 7
Phishing web site hosts rank: 7
Bot rank: 17
Attack origin rank: 14

3. Brazil
Share of malicious computer activity: 4%
Malicious code rank: 16
Spam zombies rank: 1
Phishing web site hosts rank: 16
Bot rank: 5
Attack origin rank: 9

4. Spain
Share of malicious computer activity: 4%
Malicious code rank: 10
Spam zombies rank: 8
Phishing web site hosts rank: 13

5. Italy
Share of malicious computer activity: 3%
Malicious code rank: 11
Spam zombies rank: 6
Phishing web site hosts rank: 14
Bot rank: 6
Attack origin rank: 8

6. France
Share of malicious computer activity: 3%
Malicious code rank: 8
Spam zombies rank: 14
Phishing web site hosts rank: 9
Bot rank: 10
Attack origin rank: 5
14 INTERNATIONAL RESPONSES TO CYBER CRIME

1. E-mail correspondence with Susan Brenner, March 6, 2000.
2. The alternative is for a state court to rely upon federal statutes, such as 18 U.S.C. § 1030, to prosecute computer crimes occurring wholly within its territory.
3. Brenner notes, for example, that Oklahoma state law was used in the federal court prosecution of Terry Nichols, one of the suspected perpetrators of the 1995 bombing of the Alfred P. Murrah Federal Building in Oklahoma City.

15 CONCLUSION

Cybercrimes will always be an ongoing challenge despite the advancements being made by numerous countries. Cybercrimes will always be an ongoing challenge despite the advancements being made by numerous countries. Most countries have their own laws to combat cybercrimes, but some doesn’t have any new laws but solely relies on standard terrestrial law to prosecute these crimes. Along with outdated laws to combat cybercrime, there are still feeble penalties set in place to punish criminals, thus doing no major prevention of cybercrimes’ which affect the economy and people’s social lives on a large scale by those criminals. Consequently, there is a desperate need for countries on a global scale to come together and decide on what constitute a cybercrime, and develop ways in which to persecute criminals across different countries.

REFERENCES