

CYBER-CRIMES: TYPES AND IMPACT

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ABSTRACT

We are live in the 21st century and the facilities of information technology and computer technology have not come out without deficiency. We all know that cyber-crime has been one of the common task made by the computer expert. In the present maximum of the information is online and more chances to cyber threats. In the society a large number of cyber threats and their behaviour are difficult to early understand and also very difficult to stooped in the early phases of the cyber-attacks. Cyber-crime is an activity that is used by the people to stealing the data, documents, destroying the various network systems, hacking the banking system and transferring the money from one to others accounts. Cyber-crime has serious impacts in the society in the form of national security and defence, economical disrupt, psychological disordered, economical resources etc. Cyber-crimes is restricted by the proper analysis of their character and understanding of their effect in the various level of society. In this research paper, we study the types of cyber-crimes and their impacts over the society with the future trend of cyber-crimes.

Keywords: cyber-crimes, cyber-attacks, cyber impact, monetary losses, economic impact.

1. INTRODUCTION

Cyber-crimes are an illegal activity conducted on a computer. It is acategory of crime, in which uses networks and computers to threat the data. Computer is the target goal of cyber-crimes. In the recent times necessity to reduce the cyber-crimes occurs in all over the world. In the India cyber-crimes are increasing at very fast rate and impact the country security system, economic and social issue. Cyber-crimes began with tease of employees causing physical damage to the computers used in the home become more accessible and popular. A Cyber-criminal starts their efforts on home users [1].

Cyber-crimes first started with hackers that are used some tricks to breaking the computers networks. Some peoples used these tricks only for the thrill but someone stolen sought to gain sensitive and classified materials. Therefore, the criminals started to destroy the computers network or system with the help of computers viruses, from this the personal and business computer breakdown. Computer viruses are in the forms of various code and program that can copy themselves and damage the data, network and information. When these viruses used at the high level, this is known as cyber terrorism [2]. Hackers become more intelligent and skilful. They used their expertise and knowledge to gain benefit by utilize and robbing others. In the beginning of 1990 hackers even computed against one another to shows the best hackers. By this many network affected such as military, business, security agency etc. Hacking also started making networks and system slow [3].

Cyber-crimes done by following activities:

- The theft of one's personal identity or financial resources;
- The spread of malicious software code such as computer viruses;
- By the use of others computers to send spam email messages (botnets);
- Denial of Service (DoS) attacks on computer networks or websites by the hacker;
- Hactivism or attacking the computer servers of those organizations felt by the hacker to be unsavoury or ethically dubious;
- Cyberstalking, by which sexual predators use Internet chat rooms, social networking sites, and other online venues to find and harass their victims;
- Cyberbullying, where individuals are harassed by others, causing severe mental anguish;
- Cyber pornography, the use of the Internet to spread child and adult pornography;

- Internet gambling and software piracy [4].

2. HOW CYBER CRIMINALS WORK

Cyber-crime has become a profession and therefore the sociology of the cyber-criminal is dynamically chop-chop with the kind of organized gangsters United Nations agency area unit a lot of historically related to drug-trafficking, extortion and concealing. The question of a way to acquire credit card/bank account information will be answered by a variety of strategies every select involving their own relative combos of risk, expense and ability. The probable marketplace for this dealing may be a hidden Internet Relay Chat space. Seizure of a checking account is more and more accomplished through phishing. All of the subsequent phishing tools will be no inheritable terrible cheaply [5].

The cyber criminals works in the following ways:

Coders

They are the comparative veterans of the hacking community. With a number of years' expertise at the art and an inventory established contacts, 'coders' manufacture ready-to-use tools (Trojans, mailers, custom bots) or services (such as creating a computer code making a binary code % undetectable to AV engines) to the cyber-crime labour force – the 'kids'. Coders will create a number of hundred bucks for each criminal activity they have interaction in.

Kids

It's referred to as therefore as a result of their tender age, mostly are fewer than 18. They buy, trade and sell the elementary building blocks of effective cyber-scams like spam lists, PHP mailers, proxies, Master Card numbers, hacked hosts, scam pages etc. 'Kids' can create but \$100 a month, mostly as a result of the frequency of being 'ripped off' by each other's.

Drops

These peoples convert the 'virtual money' obtained in cyber-crime into real money. Typically situated in countries with lax e-crime laws (Bolivia, Indonesia and Malaysia are currently very popular), they represent 'safe' addresses for product purchased with purloined monetary details to be sent, instead 'safe' legitimate bank accounts for cash to be transferred illicitly, and paid out of licitly.

Mobs

These area unit professionally in operation criminal organization which mixes theentire on top of coated. Social group makes notably smart use of safe drops, furthermore recruiting accomplished 'coders' onto their payrolls.

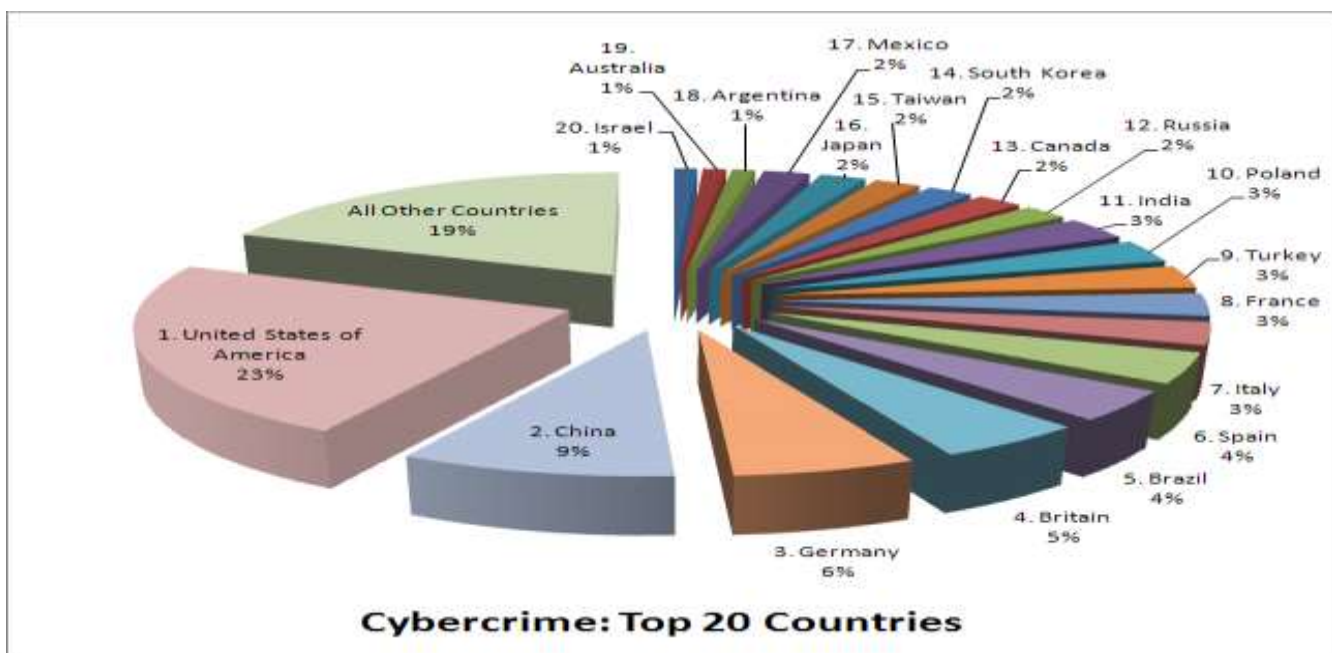
3. CYBER CRIME IN MODERN SOCIETY

Today, criminals that love cyber-crimes are not driven by ego or expertise. Instead, they have to use their data to comprehend benefits quickly. They are patterning their expertise to steal. Cyber-crimes became a real threat lately and unit quite all completely different from old-school crimes, like robbing, assault or stealing. In distinction to those crimes, cyber-crimes are committed single handily and do not want the physical presence of the criminals. The crimes are committed from a foreign location and thus the criminals needn't worry regarding the social control agencies inside the country where they are committing crimes. The same systems that have created, it is easier for people to conduct e-commerce and on-line transactions unit presently being exploited by cyber criminals [6].

4. CYBER-CRIME IN INDIA (India statics report 2016)

Crime Head	Crime Incidence			Percentage Variation	
	2014	2015	2016	2014-2015	2015-2016
Total Cyber Crimes	9,622	11,592	12,317	20.5%	6.3%

1. Maximum number of cases under cyber-crimes were reported in Uttar Pradesh (2639 cases) (21.4%) followed by Maharashtra (2380 cases) (19.3%) and Karnataka (1101 cases) (8.9%) during 2016.
2. During 2016, 48.6% of cyber-crimes cases reported were for illegal gain (50987 out of 12317 cases) followed by revenge with 8.6% (1056 cases) and insert to the modesty of women with 5.6% (686 cases) [7].



5. CATEGORIES OF CYBER-CRIMES

Cyber-crimes are broadly categorized into three categories

1. Individual
2. Property
3. Government

Each category can use a variety of methods and the methods used vary from one criminal to another.

Individual:

This type of cyber-crime can be in the form of harassment via email, cyber stacking, defamation, dissemination of absence materials, unauthorised control/ access over computer system, email spoofing, cheating and fraud, indecent

exposure. Now day many law making agencies are taking more seriously this kind of category and in the mission to arrest the perpetrators.

Property:

In this type of categories a criminal steal and rob the money. This category includes such activities computer vandalism, netrespass, transmitting viruses, intellectual property crimes, internet time theft. In this case criminal steal the person bank detail, credit/ debit card detail to make numerous purchase online, run a scam to join the people in a group and earned his hard money, use various software to access any organisation information like vandals damage property in the offline world.

Government and society:

Crimes against government are known as cyber terrorism. In this category, criminal hack the government personal website, defence or military website etc. In this categories criminal sell the personal data of one nation to the others. This category also includes the society issue like pornography trafficking, financial crimes, sell of illegal articles, online gambling, forgery etc. [8].

Cyber-crime can be divided into four sub-categories:

- Cyber-trespass (hactivism, viruses, Denial of Service attacks)
- Cyber-deceptions (identity theft, fraud, piracy)
- Cyber-pornography
- Cyber-violence (cyber-bullying, cyber-stalking) [4].

TABLE: SUB CATEGORY OF CYBER CRIME SHOWS IN DIFFERENT NEWS PAPERS

Sub category of Cyber Crime	Newspapers			Total
	Hindustan Times	The Hindu	Times of India	
Phishing	8	6	6	20
	40.00%	30.00%	30.00%	100.00%
Hacking	1	26	49	76
	1.30%	34.20%	64.50%	100.00%
Obscene Material Circulation	1	1	4	6
	16.70%	16.70%	66.70%	100.00%
Total	10	33	59	102
	9.80%	32.40%	57.80%	100.00%

Interpretation:

In the light of data given in the above table most of coverage is given to hacking the sub category of cyber-crimes. Times of India give 49 news (64.50%) out of the total 59 news. The Times of India present the most of the coverage of cyber crimes. Times of India give the 66.70% news obscene materials circulation and Hindustan times and The Hindu gives the equal coverage's (16.70%). Hindustan Times coverage's 40% of phishing and Times of India and The Hindu coverage's 30% of phishing cases. Sub category of cyber-crimes hacking is most coverage's of cyber-crime cases, in all three online news papers and after that coverage's of phishing and less coverage's of obscene materials circulation.

6. TYPES OF CYBER CRIMES

Hacking:

This is a types of cyber-crimes in which a person's computer broken into from this his personal and sensitive information accessed. In the many countries hacking is categorised as a punishable and wrongdoing activity like USA. This category is different from ethical hacking in which many organisation and government agency use to check their security protection. In this hackers uses various useful software which are used to accesses the password and other information, the users may not be aware that his computer is being accessed from a remote location. Hackers can also see what users do on their computer and can also import fill on their computer by using the various program install in the person's computer without his information and steal his personal information such as password, credit/debit card information.

Digital Stalking:

This is a sort of online badgering wherein the unfortunate casualty is jeopardized to a torrent of online messages and messages. Regularly, these stalkers know their exploited people and as opposed to falling back on disconnected stalking, they utilize the Web to stalk. In any case, in the event that they see that digital stalking isn't having the coveted impact, they start disconnected stalking alongside digital stalking to make the unfortunate casualties' lives more discouraged.

Data fraud:

This is a noteworthy issue with individuals utilizing the Web for money exchanges and managing an account administration. In this cybercrime, a criminal gets to information about a man's financial balance, charge cards, Standardized savings, plastic, full name and other touchy data to deplete off cash or to purchase things online in the unfortunate casualty's name. The personality hoodlum can utilize individual's data to deceitfully apply for credit; document assesses, or gets therapeutic administrations. It can result in major budgetary misfortunes for the person in question and even ruin the injured individual's record.

Pernicious Programming:

This product, likewise called PC infection is Web based programming or projects that are utilized to upset a system. The product is utilized to access a framework to assemble touchy data or information or making harm programming present in the framework.

Youngster requesting and Misuse:

This is likewise a kind of cybercrime in which culprits request minors by means of talk spaces with the end goal of tyke explicit entertainment. The FBI has been investing a great deal of energy checking talk rooms visited by kids with the end goal to diminish and avert tyke misuse and requesting.

Infection spread: Noxious programming that joins itself to other programming. (Infection, worms, Trojan steed, web jacking, email shelling and so forth).

PC vandalism:

It is a kind of cybercrime that Harms or wrecks information instead of taking. It transmits infection.

Digital fear based oppression: It is a utilization of Web based assaults in psychological militant exercises. Innovation wise fear based oppressors are utilizing 512-piece encryption, or, in other words unscramble.

Programming robbery: It is a burglary of programming through the illicit duplicating of veritable projects. Dissemination of items proposed to go for the first. In the event that a person with a solitary client permit stacks the product onto a companion's machine, or if an organization stacks a product bundle onto every representative's machine without purchasing a site permit, at that point both the single client and the organization have broken the terms of the product permit assertion and are in this manner blameworthy of programming robbery. Programming robbery includes the unapproved utilize, duplication, dissemination, or offer of monetarily accessible programming.

Programming robbery is frequently named as delicate lifting, duplicating, Web theft, hard-plate stacking, and OEMunbundling and unapproved leasing.

Refusal of administration assaults: This wrongdoing is carried out by the criminal, who surges the data transfer capacity of the unfortunate casualty's system or fills his email box with spam mail denying him of the administrations he is qualified for access [8].

7. IMPACT OF CYBER-CRIMES

Fraud

Turning into the casualty of digital wrongdoing can have enduring impacts on your life. One normal strategy con artists utilize is phishing, sending false messages implying to originate from a bank or other monetary establishment asking for individual data. On the off chance that you hand over this data, it can enable the criminal to get to your bank and acknowledge accounts, and additionally open new records and annihilate your FICO score. This kind of harm can take months or even a long time to settle, so securing your own data online is an imperative expertise to learn.

Security Expenses

Digital culprits likewise concentrate their assaults on organizations, both vast and little. Programmers may endeavour to assume control organization servers to take data or utilize the machines for their very own motivations, expecting organizations to enlist staff and refresh programming to keep gate crashers out. As per EWeek, a study of expansive organizations found a normal consumption of \$8.9 million every year on digital security, with 100 per cent of firms studied revealing something like one malware episode in the first a year and 71 per cent announcing the seizing of organization PCs by pariahs.

Money related Misfortunes

The by and large fiscal misfortunes from digital wrongdoing can be gigantic. As indicated by a 2012 report by Symantec, in excess of 1.5 million individuals succumb to a type of digital wrongdoing consistently, going from basic secret word robbery to broad fiscal cheats. With a normal loss of \$197 per injured individual, this means more than \$110 billion dollars lost to digital wrongdoing worldwide consistently. As shoppers get astute to customary roads of assault, digital offenders have grown new strategies including cell phones and interpersonal organizations to keep their unlawful additions streaming.

Robbery

The digital wrongdoing of robbery has affected the stimulation, music and programming ventures. Cases of harms are difficult to appraise and considerably harder to check, with evaluations going generally from several millions to many billions of dollars for every year. Accordingly, copyright holders have campaigned for stricter laws against licensed innovation burglary, bringing about laws like the Computerized Thousand years Copyright Act. These laws permit copyright holders to target document sharers and sue them for extensive wholes of cash to balance the money related harm of their exercises on the web.

8. FUTURE TREND

Five Patterns or trends with respect to the eventual fate of present day cyber-crimes

Five principle digital wrongdoing dangers:

1. Versatile dangers especially from cell phones are obviously on the ascent. As we are on the whole now mindful, PC deals are diminishing: as indicated by on-going reports, worldwide deals for PC's declined for the fifth back to back quarter in the April-June period, which makes that the longest decrease in the PC market's history. With the expansion of hand-held gadgets implies that there is an increment on assaults coordinated at the gadgets. For instance, focusing on portable managing an account exchanges is conceivably the greatest danger out there. BYOD additionally fits into

this classification. (Side note: in the event that you are keen on mobile phone pen testing and security look at our Programmer Superstar with Georgia Weidman and for BYOD – Aamir Lakhani).

2. The Privatization of Monetary keeping money Trojans and Other Malware is EMC's second anticipated substantial scale risk of 2013.

3. Hacktivism and the Ever-Focused on Endeavours. We as a whole think about Hacktivism, there's no compelling reason to clarify that. (Side note: totally unique subject yet you may discover this post intriguing! Cast your survey for the best hacktivist hacking bunch logo! Last check we had 73 casts a ballot.)

4. Record Takeover and Expanding utilization of Manual-Helped Digital Assaults. Intriguing to see account takeover is an immensely well-known hack. Consider what numbers of Twitter accounts have been hacked; potentially time for Twitter to present twofold sign in like Google has?

5. Fifth on the EMC report is the expectation that cybercriminals will keep on utilizing huge information standards to expand viability of assaults. What this truly implies is that botnets will be utilized to more noteworthy impact and with more prominent proficiency. Utilizing 'enormous information' standards additionally signifies 'huge information culpability'. In any case, the invert can likewise be stated: that there is colossal advantage in utilizing huge information standards to enhance location of digital dangers and extortion.

We don't have to disclose to you this yet digital wrongdoing, clearly, gets more modern and complex every month – not to mention every year. There seems a pattern towards manual assaults from capable digital offenders. The purpose behind this is likely on the grounds that mechanized digital assaults are currently much better comprehended by malware examiners and security organizes experts.

Digital security was the issue on each business pioneers psyche and individuals have been arriving house all together with GDPR not too far off. What would we be able to hope to see in 2018 at that point? Here are a few interesting points.

The dynamic and quick moving nature of digital security outpaces control which is dreadfully ease back and ungainly to be of any advantage and may really upset security by building a culture of consistence with directions and an incorrect feeling that all is well with the world against adversaries who are spry, persuaded, and shrewd.

9. CONCLUSION

From the pervious and above studies cleared that with the increment in technology, cyber-crimes also increase. Cyber-crimes prevent by know about the principles and ethics of computers for their use in proper manner. This research papers not only understanding cyber-crimes but also explain their impacts over the different levels of society. This article will help to the society to protect his online data and information which are not safe due to some cyber-crimes. After understanding the behaviour and impacts of cyber-crimes on the society will help to avoid the situation or find out the way of overcome these criminal activities. Mainly three categories used to overcome these crimes that are: education, policy making, various act and cyber laws etc. in the many countries these three categories are used to handle the criminal activities and also used some security laws. Security needs to be easy and effective if it is doing work properly. The government still has an important role to play, but to prevent these crimes need to producing new software that is able to stop the fraud. That means improved technology is needs of the days. The government has to maintain a special branch of cyber-crimes to take quick action against the cyber criminals.

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