



MUMBAI POLICE

WELCOME



Cyber Crime Awareness

Presented by-

CYBER CRIME INVESTIGATION
CELL, CRIME BRANCH, CID,
MUMBAI.

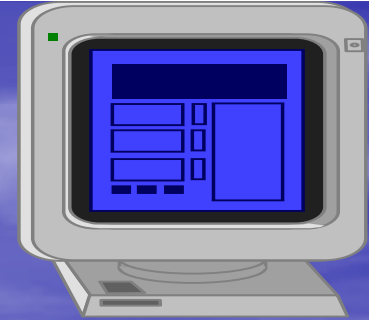


Why learn about CYBER CRIME ?

Because –

- Everybody is using COMPUTERS.
- From white collar criminals to terrorist organizations And from Teenagers to Adults
- Conventional crimes like Forgery, extortion, kidnapping etc. are being committed with the help of computers
- New generation is growing up with computers
- **MOST IMPORTANT** - Monetary transactions are moving on to the INTERNET

WHAT IS COMPUTER CRIME?



All crimes performed or resorted to by abuse of electronic media or otherwise, with the purpose of influencing the functioning of computer or computer system.

IN SHORT

COMPUTER CRIME is any crime where –

- Computer is a target.
- Computer is a tool of crime
- Computer is incidental to crime

Profile of Cyber Criminal

- Disgruntled employees.
- Teenagers.
- Political Hacktivist.
- Professional Hackers.
- Business Rival.
- Ex-Boy Friend.
- Divorced Husband. etc

VICTIMS

- **Gullible**
- **Desperados and greedy people**
- **Unskilled & Inexperienced**
- **Unlucky people**

Computer Crimes are Vulnerable

Because of :-

Anonymity,

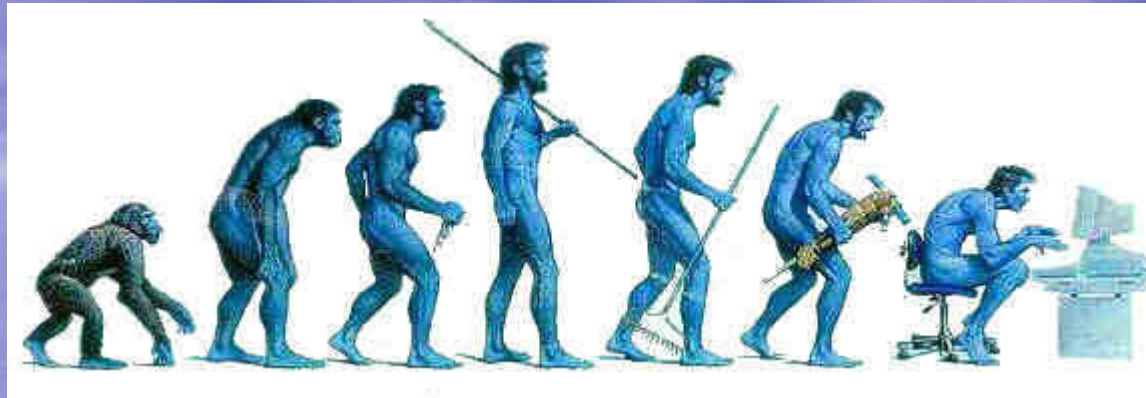
Computer's storage capacity,

Weakness in Operating System,

Lack of Awareness of user.

Types of Cyber Crime

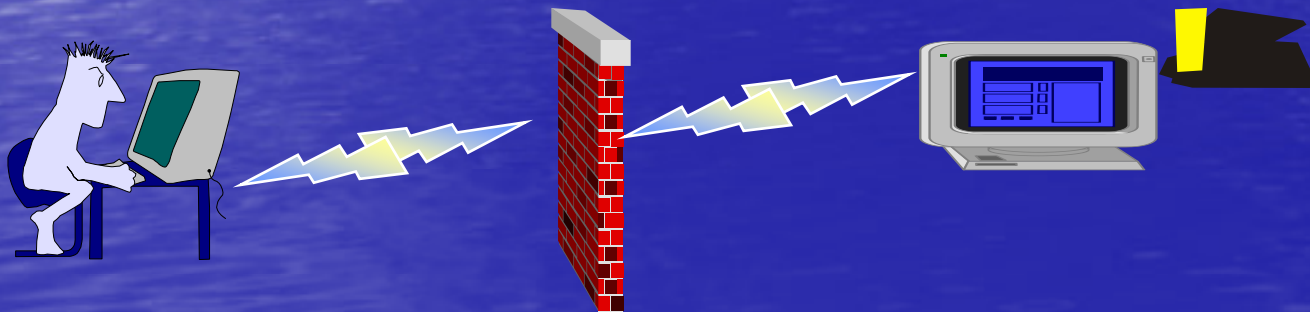
(This is not exhaustive list of cyber crime)



- HACKING
- DENIAL OF SERVICE ATTACK
- VIRUS DISSEMINATION
- SOFTWARE PIRACY
- PORNOGRAPHY
- IRC Crime
- CREDIT CARD FRAUD
- NET EXTORTION
- PHISHING
- SPOOFING
- CYBER STALKING
- CYBER DEFAMATION
- THREATENING
- SALAMI ATTACK

1) HACKING

Hacking in simple terms means illegal intrusion into a computer system without the permission of the computer owner/user.



2) DENIAL OF SERVICE ATTACK

This is an act by the criminal, who floods the bandwidth of the victim's network or fills his e-mail box with spam mail depriving him of the services he is entitled to access or provide

3) VIRUS DISSEMINATION

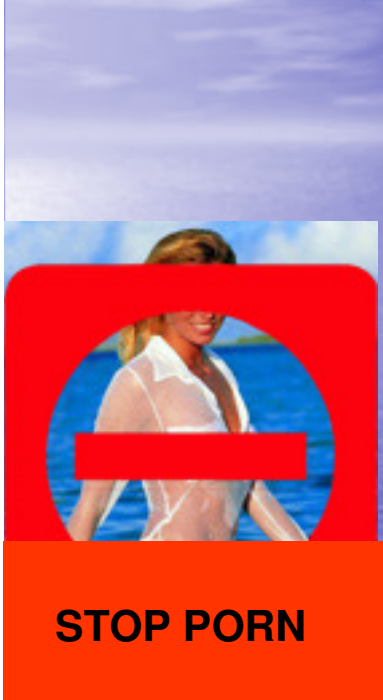
- Malicious software that attaches itself to other software.

(virus, worms, Trojan Horse, Time bomb, Logic Bomb, Rabbit and Bacterium are the malicious softwares)

4) SOFTWARE PIRACY

- Theft of software through the illegal copying of genuine programs or the counterfeiting and distribution of products intended to pass for the original.
- Retail revenue losses worldwide are ever increasing due to this crime
- Can be done in various ways-
End user copying, Hard disk loading, Counterfeiting, Illegal downloads from the internet etc.

5) PORNOGRAPHY



- Pornography is the first consistently successful e-commerce product.
- Deceptive marketing tactics and mouse trapping technologies **Pornography** encourage customers to access their websites.
- Anybody including children can log on to the internet and access websites with pornographic contents with a click of a mouse.
- Publishing, transmitting any material in electronic form which is lascivious or appeals to the prurient interest is an offence under the provisions of section 67 of I.T. Act -2000.

PAEDOPHILIES

THE SLAUGHTER OF INNOCENCE

Paedophilia, or sexual attraction to children by an adult, is a sickness that does not discriminate by race, class, or age



The Internet Allows Pedophiles



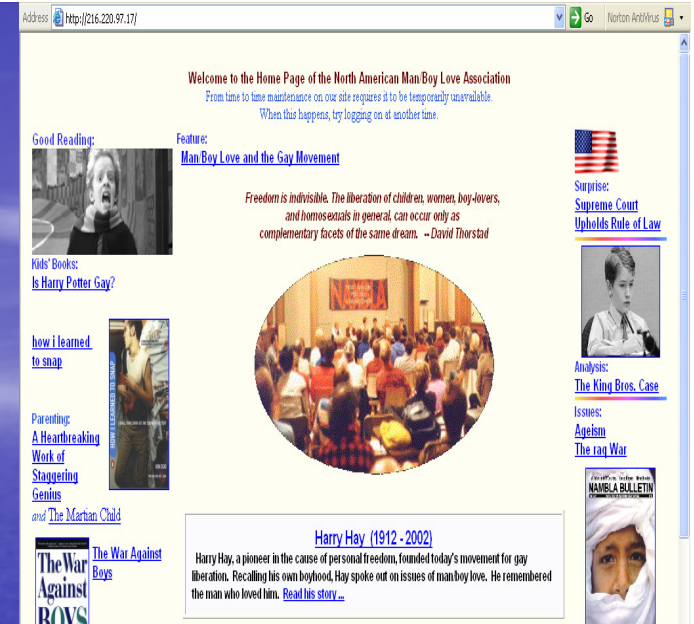
1. Instant access to other predators worldwide;
2. Open discussion of their sexual desires; ways to lure victims;
3. Mutual support of their adult-child sex philosophies;
4. Instant access to potential child victims worldwide;

5. Disguised identities for approaching children, even to the point of presenting as a member of teen groups;
6. Ready access to "teen chat rooms" to find out how and why to target as potential victims;
7. Shared ideas about Means to identify and track down home contact information;
8. Ability to build a long-term "Internet" relationship with a potential victim, prior to attempting to engage the child in physical contact.

Pedophiles

A Profile of the Pedophile

- They come from all walks of life. Some are married, some single; some professional, some white-collar; some young, some retired.
- Pedophile organizations include
 - NAMBLA (The North American Man-Boy Love Association) and
 - PAN (Pedophile Alert Network) in the Netherlands.
 - Members receive monthly magazines and newsletters that include seduction techniques and advice on avoiding detection and prosecution. Pedophiles meet each other via the Internet where they swap methods, success stories, even names, descriptions, and images of children.



6) IRC CRIME

Internet Relay Chat (IRC) servers have chat rooms in which people from anywhere the world can come together and chat with each other

- Criminals use it for meeting co-conspirators.
- Hackers use it for discussing their exploits / sharing the techniques
- Paedophiles use chat rooms to allure small children
- Cyber Stalking - In order to harass a woman her telephone number is given to others as if she wants to befriend males

7) CREDIT CARD FRAUD

You simply have to type credit card number into www page of the vendor for online transaction

If electronic transactions are not secured the credit card numbers can be stolen by the hackers who can misuse this card by impersonating the credit card owner

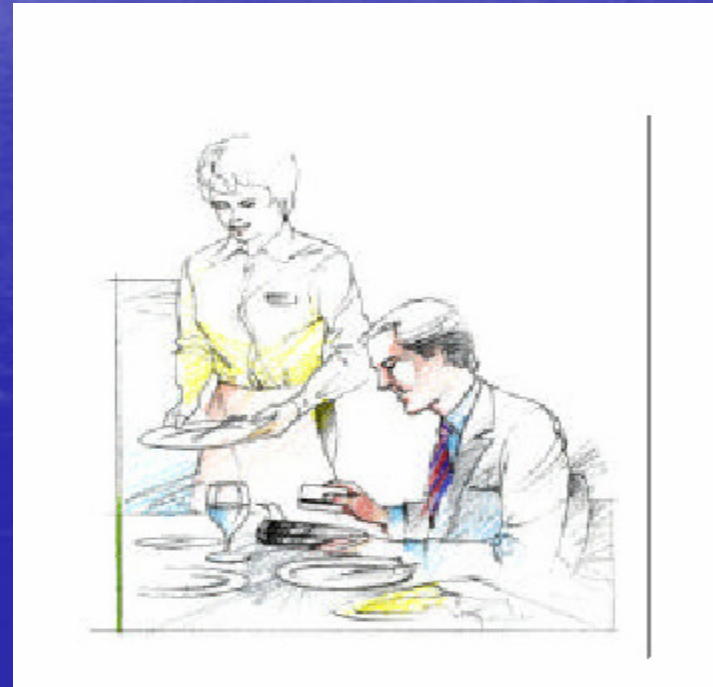
Credit card skimmer



Skimmer



How the credit card skimmer is used



Credit Card Writer



1- ATM machine as usual ?



2- Is there an additional slot ?



FALSE slot Fixed to the original card slot. (Same color and sticker). Contains additional card reader to copy your card information ..and duplicate your card

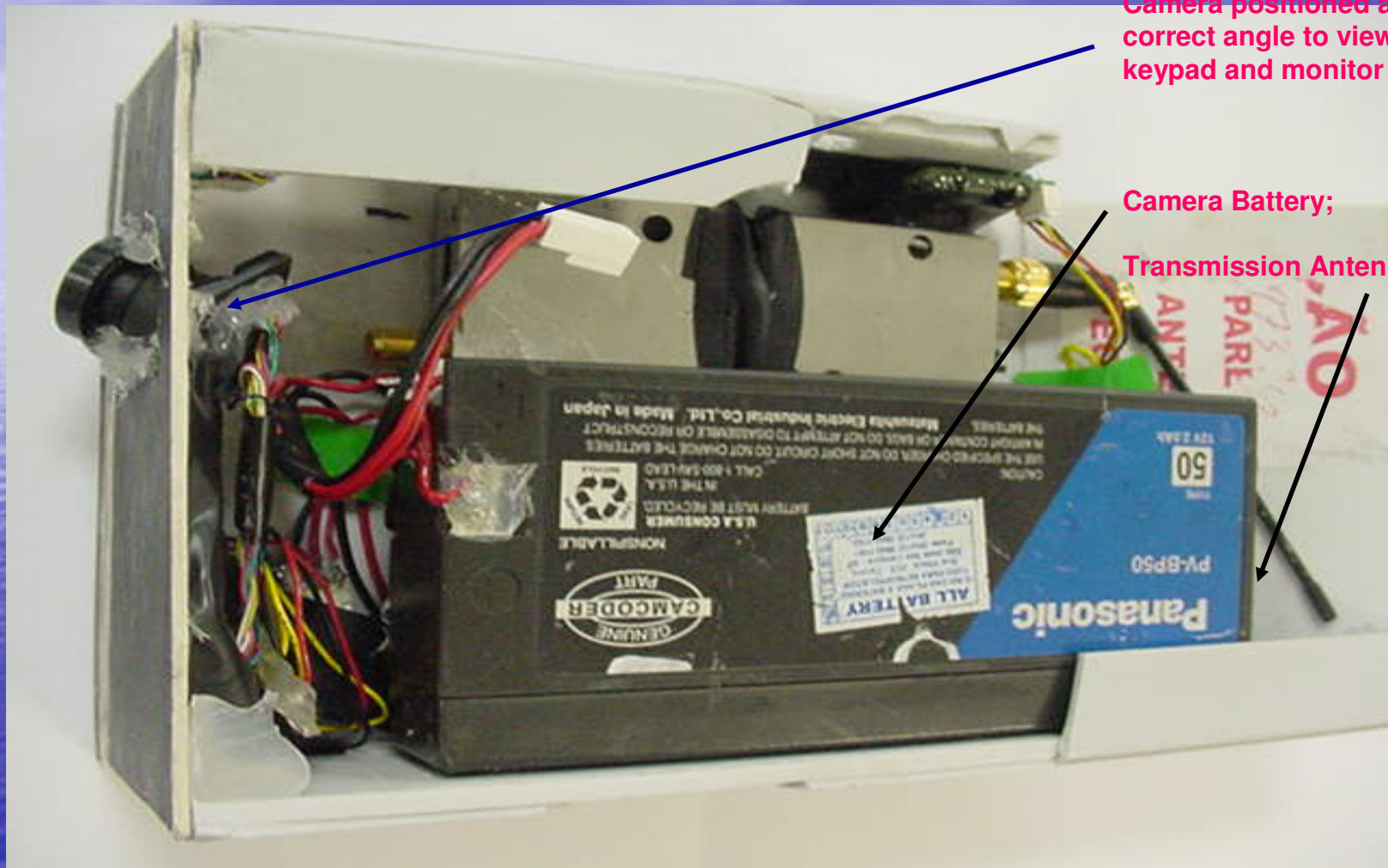
3- A monitor and pamphlet holder at the side...nothing wrong



5-False pamphlet box affixed to the ATM cubicle side



6-Inside the “pamphlet box”



Camera positioned at correct angle to view keypad and monitor

Camera Battery;

Transmission Antenna

8) NET EXTORTION

- Copying the company's confidential data in order to extort said company for huge amount.

9) PHISHING

It is technique of pulling out confidential information from the bank/financial institutional account holders by deceptive means

Actual login page

The image shows a screenshot of a web browser window displaying a bank's internet banking login page. The browser's address bar shows the URL <http://10.0.3.49/>. The page features a navigation menu with the following items: Home, Banking, Cards, Demat, Loans, Investments, NRI Services, Mobile Banking, Customer Service, and Login. The main content area is titled "Internet Banking Login" and contains the following fields and buttons:

- User Id :
- Password :
- Login

Below the login fields, there are three links: [New Users Register here](#), [Cyber Cafe Security](#), and [Trouble logging In](#).

At the bottom of the page, there is a footer with the following links: [Customer Service](#), [Internet Banking FAQ's](#), [Internet Banking Demo](#), [Unsubscribe from E-Mailers](#), [Privacy](#), [Online Security](#), [Terms and Conditions](#), and [Disclaimer](#).

The taskbar at the bottom of the browser window shows the Start button, several open applications (Microsoft Word, Inbox - Mcr..., FW: Details ...), and the system tray with the time 9:47 PM and the text "Local intranet".

Phishing email

From: *****Bank [mailto:support@*****Bank.com]

Sent: 08 June 2004 03:25

To: India

Subject: Official information from ***** Bank

Dear valued ***** Bank Customer!

For security purposes your account has been randomly chosen for verification. To verify your account information we are asking you to provide us with all the data we are requesting. Otherwise we will not be able to verify your identity and access to your account will be denied. Please click on the link below to get to the bank secure page and verify your account details. Thank you.

https://infinity.*****bank.co.in/Verify.jsp

***** Bank Limited

Deceptive login page

The image shows a screenshot of a web browser window displaying a login page for a bank. The browser's title bar reads "Microsoft Internet Explorer". The page has a dark red header with the word "Bank" in a stylized font. To the right of the header are links for "About Us", "Contact Us", "Locate Us", and "Site Map". Below the header is a navigation menu with buttons for "Home", "Banking", "Cards", "Demat", "Loans", "Investments", "NRI Services", "Mobile Banking", "Customer Service", and "Verification".

The main content area is titled "Internet Banking Account Verification" and contains the following fields and buttons:

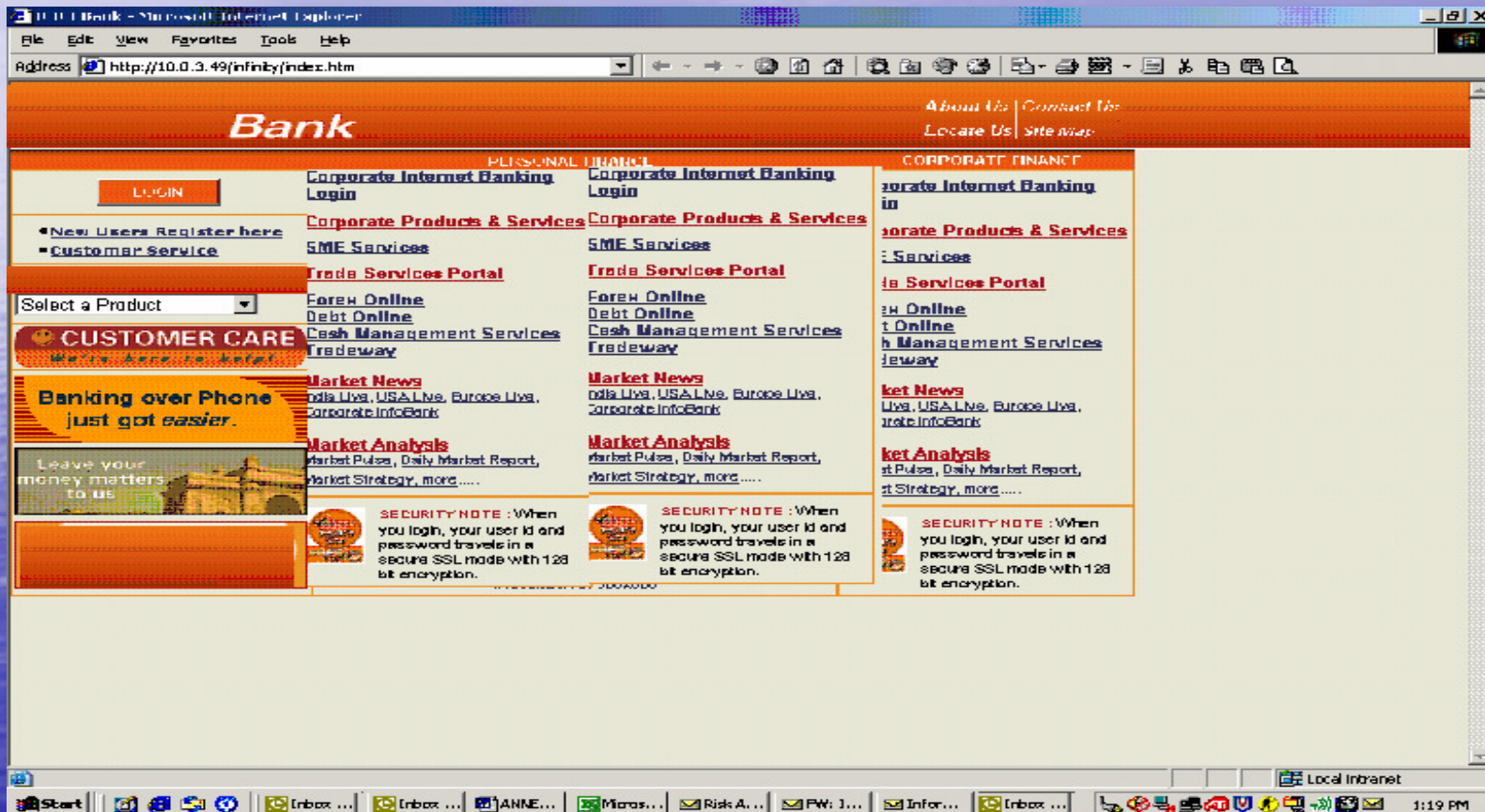
- User Id :**
- Password :**
- Transaction Password :**
- Verify** button

Below the input fields are three links: "New Users Register here", "Cyber Cafe Security", and "Trouble logging In".

At the bottom of the page, there is a footer with the following links: "Customer Service", "Internet Banking FAQs", "Internet Banking Demo", "Unsubscribe from E-Mails", "Privacy", "Online Security", "Terms and Conditions", and "Disclaimer".

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time "4:12 PM".

Actual web page



10) Spoofing

- Getting one computer on a network to pretend to have the identity of another computer, usually one with special access privileges , so as to obtain access to the other computers on the network.

11) CYBER STALKING

The Criminal follows the victim by sending emails, entering the chat rooms frequently.

12) CYBER DEFAMATION

The Criminal sends emails containing defamatory matters to all concerned of the victim or post the defamatory matters on a website.

(disgruntled employee may do this against boss, ex-boys friend against girl, divorced husband against wife etc)

13) THREATENING

The Criminal sends threatening email or comes in contact in chat rooms with victim.

(Any one disgruntled may do this against boss, friend or official)

14) SALAMI ATTACK

In such crime criminal makes insignificant changes in such a manner that such changes would go unnoticed.

Criminal makes such program that deducts small amount like Rs. 2.50 per month from the account of all the customer of the Bank and deposit the same in his account. In this case no account holder will approach the bank for such small amount but criminal gains huge amount.

15) SALE OF NARCOTICS

- Sale & Purchase through net.
- There are web site which offer sale and shipment of contrabands drugs.
- They may use the techniques of stegnography for hiding the messages.

Nigerian 4-1-9 Scam



- This scam starts with a bulk mailing or bulk faxing of a bunch of identical letters to businessmen, professionals, and other persons who tend to be of greater-than-average wealth.
- This scam is often referred to as the 4-1-9 scam, ironically after section 4-1-9 of the Nigerian Penal Code which relates to fraudulent schemes.
- Scam is according to

Anatomy of Nigerian Letter

FROM: Mr. Ben Ahore
Central Bank of Nigeria
Lagos, Nigeria
[Phone Number]

TO: Dupe
Address

Dear Sir:

I have been requested by the Nigerian National Petroleum Company to contact you for assistance in resolving a matter. The Nigerian National Petroleum Company has recently concluded a large number of contracts for oil exploration in the sub-Sahara region. The contracts have immediately produced moneys equalling US\$40,000,000. The Nigerian National Petroleum Company is desirous of oil exploration in other parts of the world, however, because of certain regulations of the Nigerian Government, it is unable to move these funds to another region.

Your assistance is requested as a non-Nigerian citizen to assist the Nigerian National Petroleum Company, and also the Central Bank of Nigeria, in moving these funds out of Nigeria. If the funds can be transferred to your name, in your United States account, then you can forward the funds as directed by the Nigerian National Petroleum Company. In exchange for your accommodating services, the Nigerian National Petroleum Company would agree to allow you to retain 10%, or US\$4 million of this amount.

However, to be a legitimate transferee of these moneys according to Nigerian law, you must presently be a depositor of at least US\$100,000 in a Nigerian bank which is regulated by the Central Bank of Nigeria.

If it will be possible for you to assist us, we would be most grateful. We suggest that you meet with us in person in Lagos, and that during your visit I introduce you to the representatives of the Nigerian National Petroleum Company, as well as with certain officials of the Central Bank of Nigeria.

Please call me at your earliest convenience at [Phone Number]. Time is of the essence in this matter; very quickly the Nigerian Government will realize that the Central Bank is maintaining this amount on deposit, and attempt to levy certain depository taxes on it.

Yours truly, etc.

Ben Ahore

- My father left me \$40 million in his will, but I have to bribe government officials to get it out
- The Nigerian National Petroleum Company has discovered oil, and we as officials of that company want to insider acquire the land, but we need an Indian front man to purchase it first for us
- We just sold a bunch of crude oil in Nigeria, but we have to bribe the banker to get it out
- The Nigerian government overpaid on some contract, and they need a front man to get it out of the country before the government discovers its error

ANY QUESTIONS ??????

PLEASE ASK



OR

> CONTACT US <

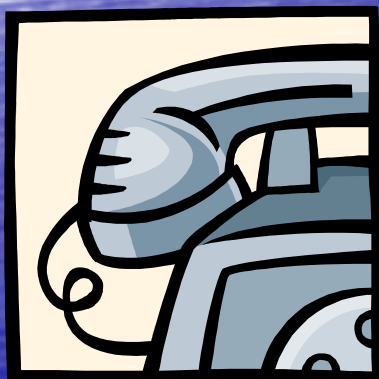


**Address :- Cyber Crime Investigation Cell, Crime Branch, CID,
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