



Avoiding Social Engineering Attacks and Protecting from Cyber Fraud

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Content

- Social Engineering
- Social Engineering Methods
- Cyber Fraud







SOCIAL ENGINEERING







Social Engineering

• Psychology of Social

Engineering

Social Engineering Case
 Study







Psychology of Social Engineering

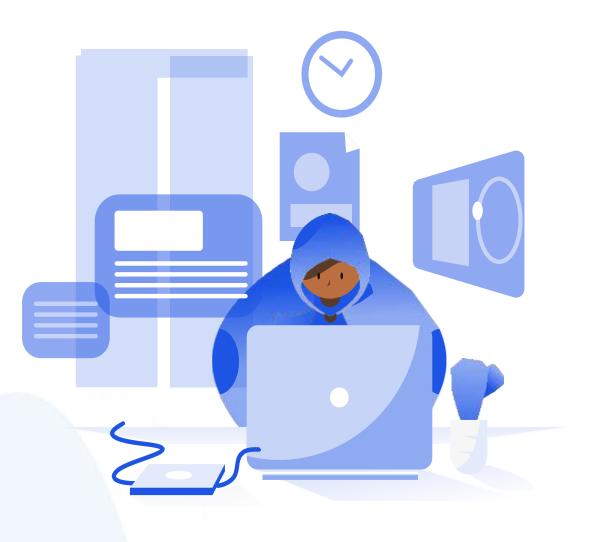






What is Social Engineering?

The art of psychologically manipulating people into making security mistakes, divulging confidential/sensitive information or taking harmful actions.









Let's take a look at the facts

Nigeria's Consumer Awareness and Financial Enlightenment Initiative had projected a \$6tn loss by 2030 to cybercrime within and outside Nigeria. These crimes are committed mostly through phishing and identity theft.

Social Engineering is the #1 Cyber threat faced in Nigeria







Emotions (Desire, Fear, Greed, urgency, Panic, Excitement, Trust, Curosity)

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Why hack technology if it's easier to hack a human?







What Do They Want

- Your identity
- Your money
- Sensitive information
- Online accounts







THANK YOU







Social Engineering Case Study





Social Engineering *Constant* Red Flags



FROM

- I don't recognize the sender's email address as someone I ordinarily communicate with.
- This email is from someone outside my organization and it's not related to my job responsibilities
- This email was sent from someone inside the organization or from a customer, vendor, or partner and is very unusual or out of character
- Is the sender's email address from a suspicious domain (like micorsoft-support.com)?
- I don't know the sender personally and they were not vouched for by someone I trust.
- I don't have a business relationship nor any past communications with the sender.
- This is an unexpected or unusual email with an embedded hyperlink or an attachment from someone I haven't communicated with recently.



- I was cc'd on an email sent to one or more people, but I don't personally know the other people it was sent to.
- I received an email that was also sent to an unusual mix of people. For instance, it might be sent to a random group of people at my organization whose last names start with the same letter, or a whole list of unrelated addresses.



- I hover my mouse over a hyperlink that's displayed in the email message, but the link-to address is for a different website. (This is a big red flag.)
- I received an email that only has long hyperlinks with no further information. and the rest of the email is completely blank.
- I received an email with a hyperlink that is a misspelling of a known web site. For instance, www.bankofarnerica.com --- the "m" is really two characters --- "r" and "n."



DATE

· Did I receive an email that I normally would get during regular business hours, but it was sent at an unusual time like 3 a.m.?



- Did I get an email with a subject line that is irrelevant or does not match the message content?
- Is the email message a reply to something I never sent or requested?

- The sender included an email attachment that I was not expecting or that makes no sense in relation to the email message. (This sender doesn't ordinarily send me this type of attachment.)
- I see an attachment with a possibly dangerous file type. The only file type that is always safe to click on is a .txt file.

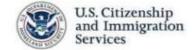


- Is the sender asking me to click on a link or open an attachment to avoid a negative consequence or to gain something of value?
- Is the email out of the ordinary, or does it have bad grammar or spelling errors?
- is the sender asking me to click a link or open up an attachment that seems odd or illogical?
- Do I have an uncomfortable gut feeling about the sender's request to open an attachment. or click a link?
- Is the email asking me to look at a compromising or embarrassing picture of myself or someone I know?









APPLICATION FOR AMERICAN E-VISA PRESS RELEASE.

President Joe Biden, the 46th U.S. President has signed an Executive Order that interested citizens of the Federal Republic of Kenya, South Africa, Ghana, Tanzania and Ethiopia who measure in some special professions are eligible for American Work E-Visa and Residence Permit. This was communicated to the eligible country commissions in the United States by the U.S Department of Immigration. The Terms of the executive Order allows 25,000 citizens of each eligible country between the age of 25 to 55 whose expertise are among the following: 1. Health Workers, 2. Engineers, 3. Marine Workers, 4. Civil Servants, 5. Business Administrators, 6. Accountants, 7. Lecturers, 8. Special Skills Workers

Interested Qualified Candidates Are Advised to Adhere Strictly to The Following Instructions:

 All Applicants must send the following documents to the Consular Section via e-mail to info@americaimmigration.us

(a) Current (CV) Curriculum Vitae (b) Government Issued I.D or Passport Biodata Page

- Applicants are advised to monitor their email always for a feedback afterwards. Applicants who do not receive a response after 3 business days should consider their visa applications rejected by the Consular Section and this decision cannot be appealed.
- 3. Successful Applicants are required to make a deposit of \$250 for English Proficiency Test which must be undertaken in America upon arrival before resumption of any official duty. Children of applicants below the age of 16 are not required to make this payment, however, couples are bound to make payment as principal applicants. Applicants who have not been administered the COVID-19 vaccine must make a deposit of \$150 for COVID-19 screening required before departure to the United States of America and upon arrival.
- Applicants must go about their applications themselves without involving any third parties such as travel agents, family members living in the United States, or any other delegates.
- Applicants who wish to be vaccinated upon arrival in the United States do not need to make any payment for vaccines. Vaccination in the United States is free of charge.

Application deadline: 6th of May, 2021.

6th April 2021 **Director USCIS**







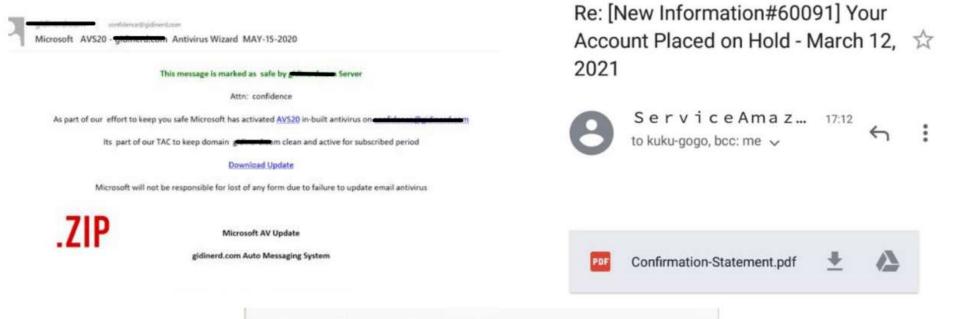
Congratulations! You have a chance to get free shoes provided by adidas for Women's Day

Congratulations!









ATM Block: Dear customer your ATM CARD has been blocked due to BVN upgrade of the year quickly call 09055973624 to re-activate within 24 hours. 10:21







A Forwarded many times

N-Power Nigeria

All N-Power applicants can now check their Examination dates. Input your mobile number on the space provided and then click the check button.

npower-fmhds-gov-ng.web.app

NPOWER SHORTLISTING IS OUT!!!

If you applied for Npower, use this link to check if you are shortlisted for CBT test <u>https://npower-fmhds-gov-ng.web.app/</u>

If you are shortlisted, use this link to create an account <u>https://</u> nasims.gov.ng/login

Read the entire detail to be able to create an account and login to your dashboard.



Federal Government Npower Support Fund Program

Get ₦100,000 in The Federal Government Npower Support Fund Program www.npower-fg-fund.gq

NPOWER GRANT

Dont miss this Federal Governemt №100,000 grant. It takes fews seconds to apply. Dont miss this great opportunity.

Apply Here

https://www.npower-fg-fund.gq/







From: To: undisclosed-recipients > Today at 7:07 AM

Transaction Alert Debit: 138,000.00

Dear Customer,

A charge of N138,000.50 will be deducted from your account for the cummulated stamp duty charges for the month of January and the new FGN VAT increase of 7.5%.

If you wish to reject this deduction/registration request, follow the cancel reference site below:

https://ibank.gcommeonymcom/etbanking/login/ security.aspx?

Thank you for your patronage.

Regards,

BANK.

The beneficiary with details below was successfully added to your Internet Banking profile.

Beneficiary Name : CHIDIEDERE FRANCIS CHUKWURA Beneficiary Account : 60238245753 Beneficiary Bank : FIDELITY BANK PLC

If did not add the beneficiary kindly follow the below link to suspend/de-active unauthorize access on your account









Dear Customer, we are running a compulsory security enrollment of all ATM cards issued by banks in Nigeria. CBN as the apex body will block all cards not enrolled within 24hrs of receiving this notification. Visit link: http://217.71.50.11/ ~update to secure your card now.

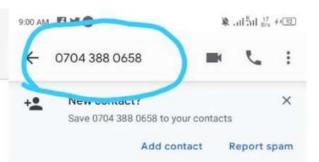
MTN-...1 02:53

Text Message Today 9:29 AM Congratulations! You are eligible to partake in our pension scheme. As part of your welcome pakage into the scheme, you will be issued the sum of 100,000 naira. Please

<

visit www.ers.n et/registration to claim your gift.

Your contribution of NGN10,000.00 to your cooperative account has been effected and your voluntary balance is NGN375,000.00.



Yesterday • 3:38 PM

Hi.bukunwi, Gud morning, is me emmanuel eze ur 2021a -copa mate at PL state, am working with (SHELL S. P. D. C.) Oil and Gas Company in Rivers state, Hv u started working if no call me now 4 more details b/cos internal employment is going on now and is very urgent

Hi.bukunmi, Gud morning, is me emmanuel eze ur 2021a -copa mate at PL state, am working with (SHELL S. P. D. C.) Oil and Gas Company in Rivers state, Hv u started working if no call me now 4 more details b/cos internal employment is going on now and is very urgent

Tue 3:39 PM · via Airtel NG





Apply For The Covid-19 Relief Fund Provided By The Federal Government. Hurry Up, It takes few seconds to apply. Dont miss this opportunity.

Apply Here

http://bit.ly/COVID-19-SUPPORT_FUND

18:04

Dont miss this federal governemt N10,500 weekly grant. It takes fews seconds to apply. Dont miss this great opportunity.

Apply Here

http://bit.ly/Fg-N10500-Weekly

15:54

FEDERAL GOVERNMENT SURVIVAL FUND GET UPTO №30,000 CASH PRIZE IN THE ONGOING SURVIVAL FUND PROGRAM survivalfund.online



DON'T MISS ANOTHER FEDERAL GOVERNMENT SURVIVAL FUND GRANT

The Federal Government have reopended the Survival Fund Portal Check if You are Eligible to receive N30,000 As Part of SURVIVAL FUND GRANT

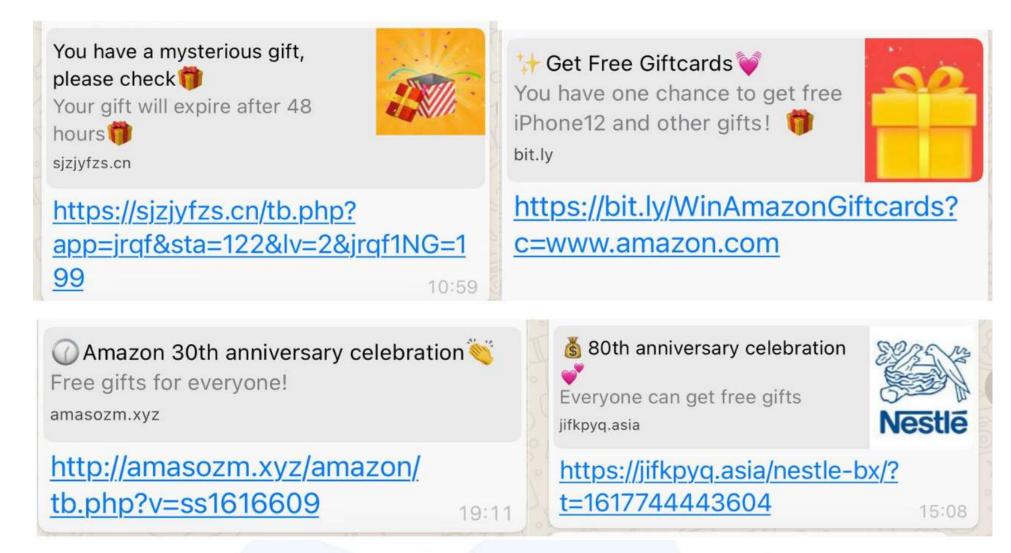
Click <u>https://survivalfund.online/</u> <u>CBN/</u>

Oya another one don show. FG go hear am hard hard. This guys won't just give up so easily















THANK YOU







SOCIAL ENGINEERING METHODS





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Social Engineering Methods

- Phishing & Spotting Phishing
- Phishing Types
- Other Social Engineering Methods
- Impact of Social Engineering





Phishing & Spotting Phishing Emails







Social Engineering Tricks

- Gaining trust by providing some information- familiar nature (rapport building)
- Helpfulness (presents a problem then becomes the saviour)
- Steer emotions
- Offering rewards
- Urgency
- Stirs fear
- Unrealistic threat or consequence
- Asks you to break protocol

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Phishing is deception through email which aims to get victims to reveal sensitive information, click on harmful links or open attachments that contain harmful software by disguising as a trustworthy entity in an email.









How to Spot Phishing Emails

- Generic greetings
- Spelling & grammatical errors
- They induce extreme emotions
- Dangerous file attachments
- Contains offers that are too good to be true
- Misspelt domain name
- Malicious links
- Inconsistencies in email address, links and domain names
- Requests for sensitive information.

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Can you detect a phishing mail?

Take This Quiz

https://phishingquiz.withgoogle.com/







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Phishing Types





Spear Phishing



Ilaboration - ToTok - confidencetawo@gmail.com - Gmail - Google Chrome

sogle.com/mail/u/3/?ui=2&view=btop&ver=1nj101dboqm98&q=influencer&qs=true&search=query&th=%23thread-f%3A1654640820528731958&qt=influencer.1.influenc

| Influencer@audience2media.com to me + | Jan 2, 2020, 7:07 PM 🟠 🔺 🗄 |
|---|--|
| Hi there, | |
| Firstly - Happy New Yearl I hope you're enjoying the holidays. | |
| I'm Claire from Audience2Media, a digital media company, focused on Influencer Marketing, based at our Global HQ in Lor | ndon, UK. |
| We are currently looking to collaborate with content creators specialising within the technology sector, for a campaign pron relevant and we would very much like to have you involved in the upcoming campaign. Further to your interest, we on beha as videos and posts across social channels. | |
| ToTok is a new messaging app which has amassed over 50 million subscribers worldwide since launching in August 2019. us attract the attention of the market through clearly communicating the value of the ToTok app and highlighting why it's on | |
| We would very much like to have your valued opinion on ToTok too; The app has been removed from the Ap | pple App Store and Google play store prematurely, |
| which in our opinion, negatively impacts the company and its developers. Both companies approved | d the app in their respective stores and completed all |
| checks and further to this we are looking to make the public aware that ToTok is a safe and user-frie | endly app. ToTok is a fully independent and privately- |
| owned start-up company, founded by Giacomo Ziani. | |
| Key product features include: | |
| Excellent audio/video guality | |
| Group calls for up to 20 people | |
| Group Chats for up to 10,000 people | |
| What sets ToTok apart from the rest - Key Highlights: | |
| Over 30,000 positive user reviews have been shared on the Apple and Google stores to date, in an unmistakable | |
| ToTok app is equipped with high-security standards such as AES256, TLS/SSL, RSA and SHA256, to diligently preserved. | |
| To Tok has a privacy framework that complies with the local and international legal requirements to safeguard use | ars at all times |
| The app can be downloaded directly from their app website (<u>www.totko.ai</u>) | |

https://nyl.as/t1/3/3mynx7nfzckhgm3ev67jdy3lm/0/64db7daffa58663670496772e386080717a2c25a6327d1b

more targeted version the phishing scam nereby an attacker ooses specific dividuals within an ganization. They then lor their messages ised on aracteristics, job sitions, and contacts longing to their ctims to make their tack less conspicuous.







Vishing

Often referred to as voice phishing, vishing is a deception method cybercriminals use savvy deceptive tactics to convince victims to act, giving up private information and access to bank accounts.

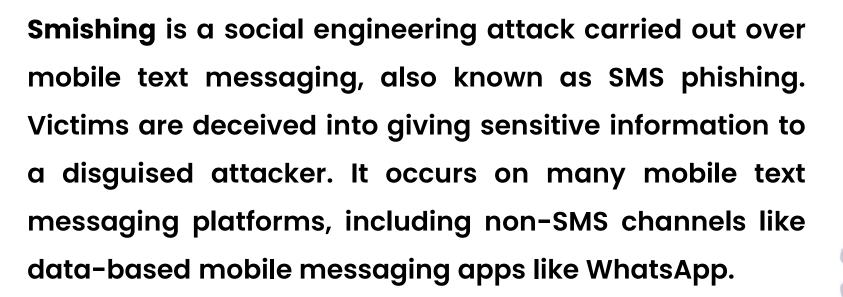


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Other Social Engineering Methods









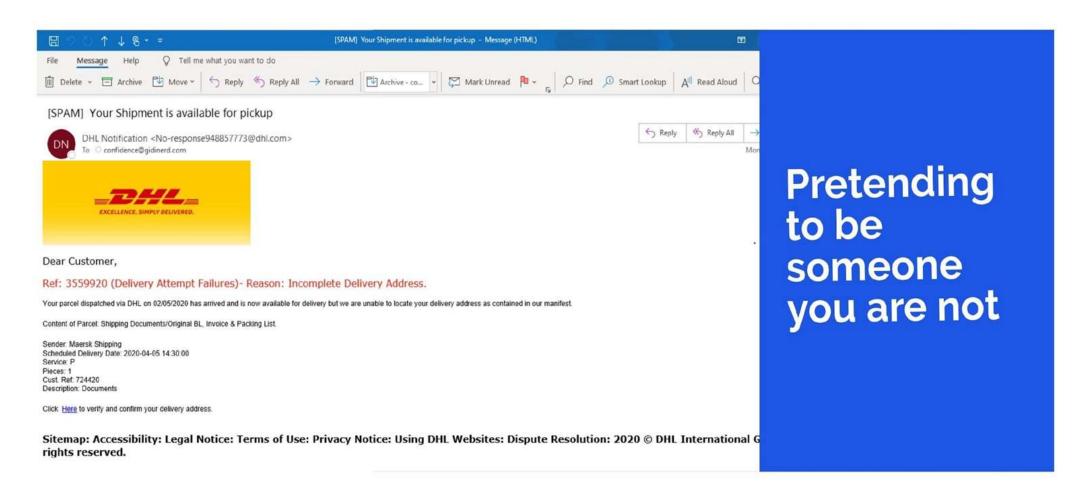
↑↓8-= [SPAM] Your operating system has been hacked by cybercriminals. Change the authorization method. - Message (Plain Text) File Message Help Q Tell me what you want to do 🗎 Delete - 🚍 Archive 🖄 Move - 🕤 Reply 🖑 Reply All -> Forward 💾 Archive - co... - 🎇 Mark Unread 🌬 - 💭 Find 🔎 Smart Lookup 🗚 Read Aloud 🔍 Someone [SPAM] Your operating system has been hacked by cybercriminals. Change the authorization method. pretends S Reply S Reply All info@gidinerd.com Sunt lo 😳 info@gidinerd.com (i) We removed extra line breaks from this message. to need I'm a programmer who cracked your email account and device about half year ago. You entered a password on one of the insecure site you visited, and I catched it. Of course you can will change your password, or already made it. sensitive But it doesn't matter, my rat software update it every time. Please don't try to contact me or find me, it is impossible, since I sent you an email from your email account. information Through your e-mail, I uploaded malicious code to your Operation System. I saved all of your contacts with friends, colleagues, relatives and a complete history of visits to the Internet resources. Also I installed a rat software on your device and long tome spying for you. from you for You are not my only victim, I usually lock devices and ask for a ransom. But I was struck by the sites of intimate content that you very often visit. an alleged I am in shock of your reach fantasies! Wow! I've never seen anything like this! I did not even know that SUCH content could be so exciting! So, when you had fun on intime sites (you know what I mean!) I made screenshot with using my program from your camera of yours device. critical task. After that, I jointed them to the content of the currently viewed site. Will be funny when I send these photos to your contacts! And if your relatives see it? BUT I'm sure you don't want it. I definitely would not want to ... I will not do this if you pay me a little amount. I think \$961 is a nice price for it!

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Baiting

Baiting involves luring an unsuspecting victim with a highly attractive offer playing on fear, greed and temptation to make them part with their personal sensitive data like log-in details. Through fraudulent, fake methods, both attempt to capture confidential, personal details such as a password or banking information such as a PIN so they can access your business networks and systems to instal malware which executes ransomware.













Spot the difference













Spot the difference



Q

www.npower-fp-fund.gq Q



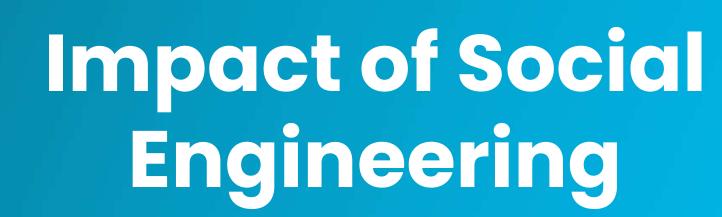




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Business Email Compromise

This a social engineering method that targets companies who conduct wire transfers and have suppliers abroad. Corporate or publicly available email accounts of executives or high-level employees related to finance or involved with wire transfer payments are either spoofed or compromised through keyloggers or phishing attacks to do fraudulent transfers, resulting in massive losses.







Business Email Compromise

An impersonation attack typically involves an email that seems to come from a trusted source. like the CEO, CFO or another high-level executive, a trusted colleague, a third-party vendor or other well-known Internet brands requesting you to perform certain financial transactions.







Preventing Business Email Compromise

- Process information and determine truth
- Be wary of tempting offers
- Trust but verify: Multi-channel request verification
- Manually type out web addresses. Make a habit not to click links in emails.
- Review sender's email address
- Scan attachments for malware
- Keep your antivirus/antimalware software updated
- Use multi-factor authentication
- Build a culture of not circumventing due process
- Ensure vendor security

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Social Engineering Trends

- Use of shortened URLs
- Combination of Smishing and Vishing
- Baiting with relevance e.g. using seasonal celebration, global events, trending announcements, etc.
- Impersonation
- Targeted emails (Spear phishing)
- Lookalike domains and websites
- Adware/banking malware e.g. trojans
- Opportunity scams
- Investment Scams
- Sponsored social media ads

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How To Stay Safe

- Stop and think
- Verify authenticity
- Assess senders name
- Zero trust mindset
- Scan links in emails or attachment
- Turn on 2FA and have a strong password
- Download apps only from your app store
- Have an antivirus installed







Activity Break

Do this if that email contains a link or attachment

https://virustotal.com/









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CYBER FRAUD







Cyber Fraud

Cyber Fraud and Types

Types of Cyber Fraud Part 2

Types of Cyber Fraud Part 3

Cyber Fraud Preventive Measures







Cyber Fraud and Types







What is Cyber fraud?

Cyber fraud is the use of internet services and a computing device by cybercriminals to defraud another individual, gain access to a victims' personal identity, corrupt their personal and financial information stored online or otherwise take advantage of them.

Cyber fraud is the most common type of fraud and the extensive and popular use of internet banking and mobile banking means there are more opportunities than ever for criminals to commit cyber fraud.







Types of Cyber Fraud

Frequent instances of cyber fraud include;

- Business Fraud
- Credit Card Fraud
- Internet Auction Fraud
- Investment Schemes
- Nigerian Letter Fraud
- Cryptojacking

- Identity Theft
- Software Piracy
- Cyberespionage
- Cyberextortion
- Exit Scam
- Non-delivery Of Merchandise







Business Fraud

Business fraud consists of dishonest and illegal activities perpetrated by individuals or companies in order to provide an advantageous financial outcome to those persons or establishments. Also known as corporate fraud, these schemes often appear under the guise of legitimate business practices. An array of crimes fall under business fraud, including the following:

- Charity fraud: Using deception to get money from individuals believing they are making donations to legitimate charity organizations, especially charities representing victims of natural disasters shortly after the incident occurs.
- Internet auction fraud: A fraudulent transaction or exchange that occurs in the context of an online auction site.

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- Non-delivery of merchandise: Fraud occurring when a payment is sent but the goods and services ordered are never received.
- Non-payment of funds: Fraud occurring when goods and services are shipped or rendered but payment for them is never received.
- **Overpayment scheme:** An individual is sent a payment significantly higher than an owed amount and is instructed to deposit the money in their bank account and wire transfer the excess funds back to the bank of the individual or company that sent it. The sender's bank is usually located overseas, in Eastern Europe for example, and the initial payment is found to be fraudulent, often after the wire transfer has occurred.
- **Re-shipping scheme:** An individual is recruited to receive merchandise at their place of residence and subsequently repackage the items for shipment, usually abroad. Unbeknownst to them, the merchandise was purchased with fraudulent credit cards, often opened in their name.

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Types of Cyber Fraud Part 2







Credit Card Fraud

Credit card fraud is the unauthorized use of a credit or debit card, or similar payment tool (ACH, EFT, recurring charge, etc.), to fraudulently obtain money or property. Credit and debit card numbers can be stolen from unsecured websites or can be obtained in an identity theft scheme.









Internet Auction Fraud

Internet auction fraud involves schemes attributable to the misrepresentation of a product advertised for sale through an Internet auction site or the non-delivery of products purchased through an Internet auction site.

Non-delivery of Merchandise

Non-delivery of merchandise is a scheme most often linked to Internet auction fraud, in which a seller on an Internet auction website accepts payment for an item yet intentionally fails to ship it. Sellers like these sometimes will relist the item and attempt to sell it again through a different username. Non-delivery of merchandise can also be considered a form of business fraud in a number of

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Investment Fraud

Investment fraud involves the illegal sale or purported sale of financial instruments. The typical investment fraud schemes are characterized by offers of low- or no-risk investments, guaranteed returns, overly-consistent returns, complex strategies, or unregistered securities. Examples of investment fraud include advance fee fraud, Ponzi schemes, pyramid schemes, and market manipulation fraud.

These schemes often seek to victimize affinity groups—such as groups with a common religion or ethnicity—to utilize the common interests to build trust to effectively operate the investment fraud against them. The perpetrators range from professional investment advisers to persons trusted and interacted with daily, such as a neighbor or

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Nigerian letter frauds combine the threat of impersonation fraud with a variation of an advance fee scheme in which a letter mailed, or e-mailed, from Nigeria offers the recipient the "opportunity" to share in a percentage of millions of dollars that the author-a selfproclaimed government official—is trying to transfer illegally out of Nigeria. The recipient is encouraged to send information to the author, such as blank letterhead stationery, bank name and account numbers, and other identifying information using a fax number given in the letter or return e-mail address provided in the message. The scheme relies on convincing a willing victim, who has demonstrated a "propensity for larceny" by responding to the invitation, to send money to the author of the letter in Nigeria in several instalments of increasing amounts for a variety of reasons.

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Types of Cyber Fraud Part 3







Cryptojacking

Cryptojacking is a type of cybercrime that involves the unauthorized use of people's devices (computers, smartphones, tablets, or even servers) by cybercriminals to mine for cryptocurrency. Like many forms of cybercrime, the motive is profit, but unlike other threats, it is designed to stay completely hidden from the victim.

Identity Theft

Identity theft and identity fraud are terms used to refer to all types of crime in which someone wrongfully obtains and uses another person's personal data in some way that involves fraud or deception, typically for economic gain.







Cyber Extortion

Cyber extortion is the act of cyber-criminals demanding payment through the use of or threat of some form of malicious activity against a victim, such as data compromise or denial of service attack. Cyber extortion permeates actions such as ransomware, email ransom campaigns, and distributed denial of service (DDoS) attacks.

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I captured a video from your screen and the camera of the device. I edited a video wherein one part of the screen there is a video of you masturbating and in the other a pornographic video that you opened at that time. I can see all the contacts from your phone and all of your social networks.

At one moment, I can send this video to all the contacts on your phone, email, and social networks. Moreover, I can also send your email and messenger data to everybody.

I can destroy your reputation forever.

If you want to avoid this, then: Send 1500 USD (USA dollars) to my bitcoin wallet







Types of Cyber Fraud

Software Piracy

Software piracy is the illegal copying, installation, use, distribution, or sale of software in any way other than that is expressed in the license agreement. The software industry is facing huge financial losses due to the piracy of software. Piracy of software is performed by end-users as well as by the dealers.







Types of Cyber Fraud

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Exit Scam

An exit scam is a confidence trick where an established business stops shipping orders while receiving payment for new orders. If the entity had a good reputation, it could take some time before it is widely recognized that orders are not shipping, and the entity can then make off with the money paid for unshipped orders.

Cyberespionage

Cyber espionage, or cyber spying, is a type of cyberattack in which an unauthorized user attempts to access sensitive or classified data or intellectual property (IP) for economic gain, competitive advantage or political reasons.





Types of Cyber Fraud

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Cyber Fraud Preventive Measures







How to Prevent Cyber Fraud

- Continually update your computer and mobile devices.
- Use good password habits
- Restrict access to your computer and devices by using passwords and multiple computer profiles
- Talk to your children and family about internet security.
- Know what to do if you become a victim.
- Activate your firewall Firewalls are the first line of cyber defence; they block connections to unknown or bogus sites and will keep out some types of viruses and hackers.
- Use anti-virus/malware software Prevent viruses from infecting your computer by installing and regularly updating anti-virus software.







- Prevent spyware from infiltrating your computer by installing and updating antispyware software.
- Check your security settings and be careful what information you post online.
- Be aware that your mobile device is vulnerable to viruses and hackers.
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- Download applications from trusted sources. Install the latest operating system updates Keep your applications and operating system (e.g. Windows, Mac, Linux) current with the latest system updates.
- Turn on automatic updates to prevent potential attacks on older software.
- Make regular back-ups of all your important data, and store it in another location.







How to Prevent Cyber Fraud

- Secure your wireless network. Wi-Fi (wireless) networks are vulnerable to intrusion if they are not properly secured
- Review and modify default settings.
- Public Wi-Fi, a.k.a. "Hot Spots", are also vulnerable. Avoid conducting financial or corporate transactions on these networks.
- Be cautious when giving out personal information such as your name, address, phone number or financial information on the Internet.







How to Prevent Cyber Fraud

- Make sure that websites are secure (e.g. when making online purchases) or that you've enabled privacy settings (e.g. when accessing/using social networking sites).
- Always think before you click on a link or file of unknown origin.
- Don't feel pressured by any emails. Check the source of the message. When in doubt, verify the source.
- Never reply to emails that ask you to verify your information or confirm your user ID or password.







THANK YOU

