





Vellore Institute of Technology

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PMCA605L: Cyber Security

Module 4: Phishing and Identity Theft

Courtesy: Nina Godbole, Sunit Belapure & Other Sources of Internet

Phishing

 Phishing is a type of cyberattack where attackers trick individuals into revealing sensitive information.

 Such as usernames, passwords, credit card details, or financial data, by disguising themselves as legitimate entities.

 It is one of the most common social engineering attacks used by hackers.



Phishing Methods

- Dragnet (Spammed Emails)
- Rod-and-Reel (Targeted Phishing)
- Lobsterpot (Spoofed Websites)
- Gillnet (Malicious Code and Malware)



Dragnet (Spammed Emails)

- Wide-scale phishing method, similar to casting a net to catch as many victims as possible.
- Attackers send mass spam emails to thousands or millions of recipients.
- Emails appear to be from legitimate sources (e.g., banks, popular websites).
- Aimed at tricking users into clicking on malicious links or entering sensitive information.

Example: An email claiming you've won a lottery, asking for personal details to claim the prize.



Rod-and-Reel (Targeted Phishing)

- More targeted approach compared to Dragnet.
- Attackers identify specific victims (e.g., high-value targets or certain demographics).
- They craft personalized messages containing false information to manipulate victims into revealing data.
- Often involves social engineering to make the message more convincing.

Example: An email pretending to be from a company's HR department requesting login details for a benefits portal.



Lobsterpot (Spoofed Websites)

- Focuses on **spoofed (fake) websites** that mimic legitimate ones.
- Victims are tricked into visiting fake sites and entering personal information (e.g., usernames, passwords, or credit card details).
- Links to these sites are often shared through phishing emails or ads.

Example: A fake banking website that looks identical to the real one but is designed to steal login credentials.



Gillnet (Malicious Code and Malware)

- Less reliant on social engineering; uses malicious code or malware instead.
- Attackers embed malware in emails, links, or websites to infect users' devices.
- Once installed, the malware can steal sensitive information, record keystrokes, or provide remote access to the attacker.

Example: An email attachment disguised as an invoice that installs spyware when opened.



Phishing Techniques

- 1.URL (weblink) manipulation
- 2. Filter Evasion
- 3. Website forgery
- 4. Flash Phishing
- 5. Social Phishing
- 6.Phone Phishing



URL (weblink) manipulation

- URL manipulation is a phishing technique where attackers create deceptive or misleading URLs that look legitimate but lead to malicious websites.
- The goal is to **trick users into clicking the link** and entering sensitive information like usernames, passwords, or credit card details.
- Example: Using domains like "secure-paypal.com" instead of the real "paypal.com".



Filter Evasion

- Filter evasion is a phishing technique used to bypass email security filters and avoid detection by spam filters or antivirus software.
- Attackers use various methods to disguise their phishing content, making it harder for automated systems to identify and block malicious emails or websites.
- Example: Using image-based text or misspellings (e.g., "PayPal" using Cyrillic letters) to avoid detection.



Phishing Filter

- Google uses advanced phishing filters to protect users from phishing emails, malicious websites, and fraudulent activities.
- These filters are integrated into Google services like Gmail, Google Chrome, and Google Search to detect and block phishing attempts.
- Microsoft uses advanced phishing filters to protect users from phishing attacks, malicious websites, and fraudulent emails. These filters are integrated into Microsoft services like Outlook, Microsoft Edge, and Microsoft Defender to detect and block phishing attempts in real-time.

Website Forgery

√ Fake websites are created that look identical to real ones.

√ When victims enter their login credentials, attackers steal them.

Example: A fake Google login page that captures your username and password.



Flash Phishing

 Using flash animations or interactive content to trick users into revealing personal information.

Often used in fake surveys or online games.



Social Phishing

- Social Phishing is a technique where attackers use social engineering tactics to manipulate victims into revealing sensitive information by exploiting human trust and social interactions.
- These attacks often occur on social media platforms, messaging apps, or through impersonation of trusted contacts or organizations.
- Example: Fake Customer Support Accounts, Social Media Scams- "Win a free smartphone! Click here to participate!"



Phone Phishing

- Smishing (SMS Phishing)
- Vishing (Voice Phishing)

Spear Phishing

- ✓ A targeted attack aimed at specific individuals or organizations.
- ✓ Attackers customize messages based on personal details (name, job title, company) to make them more convincing.
- ✓ Often used in corporate espionage or fraud attacks.

Example: A fake email from a company's CEO instructing an employee to transfer funds.



Whaling

- ✓ A specialized form of spear phishing targeting high-profile individuals like CEOs, executives, and senior employees.
- ✓ Attackers use fake emails or messages to impersonate executives and request sensitive data or wire transfers.

 Example: A CFO receiving an email (spoofed) from the CEO asking for an urgent wire transfer.



Types of Phishing Scams

- 1.Deceptive Phishing
- 2. Malware-based Phishing
- 3.Keyloggers
- 4. Session hijacking
- 5.In-session Phishing
- 6. Web Trojans
- 7. Pharming
- 8. System reconfiguration attacks
- 9. Data theft
- 10. Content-injection Phishing
- 11. Man-in-the-middle Phishing
- 12. Search engine Phishing
- 13. SSL certificate Phishing



Deceptive Phishing

 Deceptive Phishing is the most common type of phishing attack where attackers pretend to be a legitimate entity to trick victims into revealing sensitive information such as usernames, passwords, credit card numbers, or personal details.

These attacks usually occur through emails,
SMS, or fake websites designed to look trustworthy.



Email (**Deceptive Phishing**)

- ✓ Attackers send fake emails that appear to be from trusted sources (banks, government agencies, or social media platforms).
- ✓ These emails contain malicious links or attachments that steal credentials.

Example: An email pretending to be from PayPal asking you to update your account information.



Malware-Based Phishing

- Emails or messages contain malicious attachments or links that download malware onto the victim's device.
- The malware may steal information, log keystrokes, or provide remote access to the attacker.
- Example: An email with a subject line, "Invoice Due - URGENT" containing a .docx or .pdf file with embedded malware.



Session Hijacking

- Session Hijacking is a cyberattack where an attacker takes over a user's active session on a website or application by stealing or manipulating session tokens.
- This allows the attacker to impersonate the user and gain unauthorized access to their account or sensitive information.

Example Scenario:

- ✓ You connect to a public Wi-Fi at a café and log into your email account.
- ✓ An attacker on the same network uses a packet sniffer to capture your session cookie.
- ✓ Using the stolen session cookie, the attacker **impersonates you** and gains full access to your email account without needing your password.



In-Session Phishing

- In-Session Phishing where attackers display fake pop-up messages or overlays on legitimate websites while the user is actively logged in.
- These deceptive prompts trick users into entering sensitive information, such as login credentials, credit card numbers, or personal details.
- **Example:** You are logged into your PayPal account to check recent transactions. While browsing through your payment history, a pop-up suddenly appears that looks exactly like a PayPal security alert:
 - "Your session has expired for security reasons. Please reenter your password to continue."



Web Trojans

- Web Trojans are malicious programs or scripts that are embedded into websites or delivered through web applications.
- Their primary goal is to steal sensitive information, hijack user sessions, or install additional malware on the victim's device.

 Unlike traditional Trojans, web Trojans operate through web browsers and often require minimal user interaction.



Web Trojans(Example)

- You visit a popular news website that has been compromised by attackers.
- An invisible iframe is embedded on the site, loading a malicious script from a remote server.
- The script executes a Man-in-the-Browser (MitB) attack that:
- ✓ Steals your online banking credentials by injecting a fake login form.
- ✓ Records your keystrokes as you enter your username and password.
- ✓ Redirects you to the legitimate banking website after stealing your data, so you suspect nothing.



Pharming

- Pharming is a cyberattack where users are redirected from legitimate websites to fraudulent sites without their knowledge, even if they type the correct URL.
- Pharming manipulates the underlying network infrastructure or DNS settings. (DNS based pharming)
- Host File Poisoning where attackers modify the host file on a victim's computer to redirect them to malicious websites, even if they type the correct URL

Host File Poisoning

Host File Overview:

- The host file is located on a user's computer (e.g., in C:\Windows\System32\drivers\etc\hosts on Windows).
- It acts as a local DNS resolver, mapping domain names to IP addresses before querying external DNS servers.
- Example entry: 127.0.0.1 localhost or 192.168.1.10 myprinter.local.



Tabnapping (Tabjacking)

- Tabnapping, also known as Tabjacking, is a type of phishing attack where a malicious website silently changes the content of an inactive browser tab to look like a legitimate login page.
- The attacker aims to trick users into re-entering their credentials, such as email, social media, or banking passwords, thinking their session has expired.

Tab Inactivity Detection:

- ➤ If the user switches to another tab and leaves this one inactive for a while, a script detects the inactivity.
- After a set period (e.g., 30 seconds), the script changes the content of the inactive tab to mimic a login page for a trusted website (e.g., Gmail, Facebook, or a banking portal).



System Reconfiguration Attacks

- System reconfiguration attacks involve unauthorized changes to a system's settings or configuration parameters.
- These attacks aim to disrupt normal operations, create security vulnerabilities, or provide attackers with backdoor access to sensitive information
- Example: URLs saved under favorites in the browser might be modified. www.xyzbank.com to www.xyzbanc.com



Data Theft

- Data theft is the unauthorized acquisition of sensitive or confidential information, often for malicious purposes such as identity theft, financial fraud, or corporate espionage.
- It involves stealing data from individuals, organizations, or government entities without their consent.
- Phishers get profit from selling confidential information like design documents, legal opinions and employee related records.



Phoraging (Foraging)

- Defined as a process of collecting data from many different online sources to build up the identity of someone with the ultimate aim of committing identity theft.
- Phishing-Pharming-Phoraging (3Ps of CyberCrime)

Examples:

Social Media Foraging: Collecting personal details like birthdays, locations, and family members from social media profiles to answer security questions or craft personalized phishing emails.

Corporate Reconnaissance: Gathering organizational information, including employee names, job titles, and email formats, to launch spear-phishing attacks.



Clone Phishing

 ✓ Attackers create identical copies of legitimate emails but replace links/attachments with malicious versions.

√ The new email appears to come from a trusted sender but redirects victims to fake websites.

Example: A cloned email from Microsoft asking you to log in, but the link leads to a **fake Office 365** login page.



Social Media Phishing

• Attackers send **fake messages** on social media platforms (Facebook, Instagram, LinkedIn).

√ They pretend to be friends, brands, or job recruiters to steal personal data.

Example: Fake Facebook messages asking for password resets.



Content-Injection Phishing

- Content-Injection Phishing involves inserting malicious content into legitimate websites or emails to deceive users into providing sensitive information.
- Unlike traditional phishing, this technique leverages trusted platforms, making the attack more convincing and harder to detect.

Examples:

Website Compromise: A banking website is compromised to display a fake login form, capturing customer credentials.



Man-in-the-Middle Phishing

- Where attackers intercept and manipulate communication between two parties without their knowledge.
- The attacker secretly relays and possibly alters the communication, tricking users into revealing sensitive information like login credentials, financial data or personal details.

Example

Email Manipulation: Intercepting and altering email communication between a buyer and seller to change payment details, leading to financial fraud.



SSL Certificate Phishing

- SSL Certificate Phishing is a type of phishing attack where cybercriminals use fraudulent or misleading SSL certificates to make malicious websites appear secure and legitimate.
- These fake certificates trick users into trusting the site, as they see the secure padlock symbol and HTTPS in the browser's address bar.

Examples:

 Typosquatting with SSL: A fake website like amaz0n.com has a valid SSL certificate, tricking users into entering their Amazon login details.



Search Engine Phishing

 Search Engine Phishing, also known as SEO Poisoning, involves manipulating search engine results to promote malicious websites.

 These fake sites appear legitimate and rank highly in search results, tricking users into visiting them and entering sensitive information.



Search Engine Phishing

- Creating Fake Websites: Attackers create websites that closely resemble legitimate sites, such as online banking, e-commerce, or social media platforms.
- **SEO Manipulation:** They use Search Engine Optimization (SEO) techniques, including popular keywords, backlinks, and meta tags, to rank these fake sites higher in search engine results.
- **User Deception:** When users search for common services (e.g., customer support, software downloads, or banking), they are directed to the malicious sites, believing them to be authentic due to their high ranking.
- Data Theft or Malware Distribution: The fake websites prompt users to enter sensitive information (e.g., login credentials, credit card details) or trick them into downloading malware.
- **Exploitation:** The stolen data is used for identity theft, financial fraud, or sold on the dark web.



Common Techniques

- **Keyword Stuffing:** Using trending or commonly searched keywords to rank higher in search results.
- Typosquatting and Homograph Attacks: Registering domain names similar to legitimate sites (e.g., g00gle.com) to deceive users.
- Poisoned Ads: Creating fake advertisements that appear at the top of search results, leading to phishing sites.
- Malicious Redirects: Using compromised legitimate sites to redirect users to phishing pages.



- Fake Customer Support Sites: Phishing sites disguised as customer support for popular brands rank highly in search results, leading users to call fake support numbers and share personal details.
- Fake Software Downloads: Malicious websites offer fake versions of popular software, tricking users into downloading malware.
- **SEO-Boosted Scam Sites**: Scammers optimize fake online shopping sites with holiday sale keywords to capture payment information.



Distributed Phishing Attack (DPA)

- A Distributed Phishing Attack (DPA) involves launching coordinated phishing campaigns from multiple sources or domains to evade detection and maximize impact.
- By distributing the attack across different servers, email accounts, or websites, attackers make it more challenging for security systems to block or trace the origin of the phishing attempts.
- Multiple Attack Vectors: Attackers use a network of compromised servers, email accounts, or domains to send phishing emails or host phishing websites.

Example

• Multi-Domain Phishing Campaigns: A phishing attack that uses dozens of look-alike domains (e.g., paypall-support.com, pay-pallogin.com) to trick users into entering credentials.



Distributed Phishing Attack (DPA)

- Multiple Attack Vectors: Attackers use a network of compromised servers, email accounts, or domains to send phishing emails or host phishing websites.
- **Load Distribution**: By distributing the attack traffic, they avoid triggering security filters that detect large volumes of phishing messages from a single source.
- Domain Rotation: Phishing websites rotate across different domains or IP addresses to avoid being blacklisted.
- Phishing Payloads: The distributed nature allows attackers to host phishing pages, malicious downloads, or credential harvesters on multiple servers.
- **Data Collection and Exfiltration**: Stolen information is collected across multiple endpoints and exfiltrated to the attackers' central servers.



Distributed Phishing Attack (DPA)

- Domain Shadowing: Using compromised domains to create subdomains for phishing websites.
- Fast Flux DNS: Frequently changing IP addresses linked to phishing domains to evade detection.
- Botnets: Utilizing botnets to send phishing emails from multiple compromised devices worldwide.
- Malicious URL Shorteners: Distributing phishing links using multiple shortened URLs that redirect to phishing sites.
- Social Media Phishing: Using distributed social media accounts to share phishing links and malware.



Phishing Toolkits

 Phishing toolkits are pre-packaged software bundles designed to help cybercriminals create and deploy phishing attacks with minimal effort.

 These kits provide templates, scripts, and tools needed to build convincing phishing websites, craft deceptive emails, and harvest credentials or other sensitive information.



Phishing Toolkits

- ✓ A Phishing toolkit is a set of scripts/programs
- ✓ Quite expensive
- ✓ Phishers use hypertext preprocessor (PHP) to develop the Phishing kits.
- ✓ Most of the Phishing kits are advertised and distributed at no charge and usually these *free Phishing kits* also called DIY (Do It Yourself) Phishing kits.



Examples of Phishing Toolkits

- Shadow Phisher: Known for its realistic templates of social media and banking websites.
- **Hidden Cobra Phishing Kit:** Associated with advanced persistent threat (APT) groups, offering sophisticated anti-detection features.
- WebPhish: A beginner-friendly toolkit with easy-to-use templates and automated email dispatch.
- Modlishka: An advanced reverse proxy toolkit that supports real-time man-in-the-middle phishing attacks.
- BlackEye and Zphisher: Popular open-source phishing frameworks used to clone websites and capture credentials.

COVID-19 Scams: During the pandemic, phishing toolkits were used to create fake COVID-19 relief portals and vaccine registration sites.

Spy Phishing

- Spy Phishing is a type of phishing attack designed to secretly monitor and capture sensitive information without the victim's knowledge.
- Unlike traditional phishing, which relies on tricking users into entering credentials, spy phishing covertly records data such as keystrokes, screenshots, or browser activity.
- This information is then sent to the attacker, enabling them to steal personal details, financial information, or corporate secrets.



Spy Phishing

- **Infection Vector:** Attackers deliver spyware through phishing emails, malicious links, or infected attachments. Social engineering techniques are often used to lure victims into clicking on these links.
- **Silent Installation:** The spyware is installed silently in the background without the victim's knowledge. It often disguises itself as legitimate software or hides in system processes.
- **Data Monitoring and Collection:** The spyware begins monitoring user activity, such as keystrokes, screenshots, clipboard data, or browser history.
- **Data Exfiltration:** Collected data is periodically sent to the attacker's server for analysis and exploitation.
- Continuous Surveillance: Advanced spy phishing campaigns may allow attackers to remotely control the victim's device, activate webcams or microphones, or track real-time activity.



Spy Phishing

- Fake Software Updates: A phishing email tricks the user into installing a fake browser update that contains spyware.
- Malicious Attachments: An infected PDF or Word document installs keylogging malware when opened.
- Social Media Links: A shortened URL shared on social media leads to a compromised website that silently installs spyware.
- BrowserExtensions: Malicious browser extensions secretly monitor browsing activity and steal cookies.



How to avoid being a victim of a Phishing Attack?

- Keep Antivirus up to date
- Don't click on hyperlinks in email
- Take advantage of anti-spam software
- Verify https(SSL)
- Use anti-spyware software
- Get Educated
- Use Microsoft Baseline Security Analyzer(MBSA)
- Firewall
- Use Backup System Images
- Do not enter sensitive or financial information into pop-up windows
- Secure the host file
- Protect against DNS Pharming attacks



Phishing Countermeasures

HOW TO PREVENT PHISHING

- 1. Learn to Identify Phishing
- Urgency
- Money Baits
- Grammar Mistakes
- Impersonal Messages
- 3. Don't Click On That Link
- Triple-Check the Authenticity of Every Email
- Do Not Click on Links Inside Email Messages
- **5. Don't Disclose Personal Information**
- Never Enter Personal Information on Suspect Sites
- Do Not Share Sensitive Information on Your Social Media
- 7. Block Pop-Ups to Prevent Phishing Scams
- Use Popup-Blocking and Anti-Phishing Addons
- Always Close Pop-Ups Using the X Sign in One of the Corners
- 9. Enable Firewalls
- Enable Filtering on Your Email Server
- Use Network Firewall
- Use Desktop Firewall

- 2. Don't Fall Into the False Sense of Security
- Be Aware of Spear Phishing
- Learn to Recognize Targeted Phishing Tactics
- 4. Don't Trust Unsecure Sites
- Ensure the URL of the Website Starts with HTTPS
- Ensure there is a closed padlock icon next to the URL
- 6. Update Regularly
- Keep Your Software Up to Date
- Turn On Automatic Updates
- Always Update Your Browser
- 8. Enable 2FA With WebAuthn/U2F Security Keys
- Deploy Two-Factor Authentication (2FA) or Multi-Factor Authentication (MFA)
 For All Your Users
- Use WebAuthn/U2F Security Keys to Prevent Phishing
- 10. Raise Phishing Awareness
- Conduct a Security Training For Your Employees
- Be Aware of Other Kinds of Cyberattacks



Sanitizing Proxy System (SPS)

- The Sanitizing Proxy System (SPS) is a security mechanism designed to thwart phishing attacks by filtering and sanitizing web content before it reaches the user.
- Its primary objective is to detect and neutralize phishing attempts while maintaining a seamless browsing experience.
- SPS acts as an intermediary between the user and the internet, inspecting and sanitizing all incoming web traffic to prevent phishing attempts.
- It intercepts requests, analyzes the content for malicious elements, and delivers a "clean" version of the webpage to the user.



Sanitizing Proxy System (SPS)

- Content Analysis Engine (Analyzes web content (HTML, scripts, links) for malicious code and phishing indicators.)
- Sanitization Module (Removes or neutralizes malicious scripts, links, and embedded content)
- Behavioral Analysis (Monitors the behavior of web elements to detect phishing tactics like fake login prompts and credential harvesting.)
- Feedback and Learning Loop (Continuously improves the detection engine by learning from new phishing patterns and user interactions.)



How SPS Thwarts Phishing Attacks?

- URL Validation: Identifies and blocks deceptive URLs and fake login pages.
- Content Sanitization: Removes malicious scripts designed to steal user credentials.
- Form Protection: Prevents unauthorized data collection by sanitizing form submissions.
- User Alerting: Warns users about suspicious sites or potential phishing attempts.



Examples of Software with SPS-like Capabilities

- Zscaler Internet Access Secure web gateway with advanced phishing protection.
- Cisco Umbrella Cloud-delivered security service with URL filtering and phishing defense.
- Symantec Web Security Service Provides web content sanitization and anti-phishing protection.



Top Anti-Phishing Plugins for Browsers

- Netcraft Extension
- Avast Online Security
- Bitdefender TrafficLight
- PhishGuard
- Trend Micro Toolbar



Identity Theft (ID Theft)

 Fraud that involves someone pretending to be someone else to steal money or get other benefits.

 The person whose identity is used can suffer various consequences when he/she is held responsible for the perpetrator's actions.



Personally Identifiable Information (PII)

 Personally Identifiable Information (PII) refers to any data that can be used to identify a specific individual, either on its own or when combined with other information.

 It is highly sensitive and requires protection to prevent identity theft, fraud, and privacy breaches.



Types of PII

 Sensitive PII: Information that, if compromised, could cause harm or fraud, such as SSNs, financial details, or biometric data.

 Non-sensitive PII: Publicly available information, like names or email addresses, that, on their own, pose minimal risk.



Personally Identifiable Information (PII)

- 1. Full name
- 2. National identification number

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(e.g., Social Security Number (SSN))
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- 3. Telephone and mobile phone numbers
- 4. Driver's license number
- 5. Credit card numbers
- 6. Digital identity (e.g., E-Mail address, online account ID and password)
- 7. Birth date and Place name
- 9. Face and fingerprints



Search Information

 A fraudster generally searches the following about an individual:

- 1. First or last name
- 2. age
- 3. country, state or city of residence
- 4. gender
- 5. name of the school/college/workplace
- 6. job position, grades and/or salary
- 7. criminal record



Classification of Information (Media and Asset Protection)

Non-Classified Information

- Public Information
- Personal Information
- Private Information
- Routine Business Information
- Confidential Business Information

Classified Information

- ✓ Confidential Protection (Information about strength if armed forces, technical info about weapon)
- ✓ Secret- Substantial Protection (National Security Policy, Intelligence Operations)
- ✓ Top Secret Highest Degree of Protection (Vital Defense plans)

Types of Identity Theft

- 1. Financial identity theft
- 2. Criminal identity theft
- 3. Identity cloning
- 4. Business identity theft
- 5. Medical identity theft
- 6. Synthetic identity theft
- 7. Child identity theft



Financial Identity Theft

- When someone steals your personal information (like credit card numbers, bank account details, or Social Security Number) to make unauthorized purchases, open new accounts, or obtain loans.
- To gain financial benefits, such as buying goods, withdrawing money, or getting credit.

- ✓ Unauthorized credit card charges.
- ✓ Taking out loans or mortgages in your name.



Criminal identity theft

- Occurs when someone uses your identity during an arrest or investigation, leading to criminal records under your name.
- To avoid legal consequences or fines by impersonating another person.

- ✓ A criminal provides your name and details during a police arrest.
- ✓ Using your identity to get a driver's license, which is then used in criminal activity.



Identity Cloning

 When someone completely assumes another person's identity to live as them, using their name, Social Security Number, and other personal details.

- ✓ Applying for jobs or renting a house using your identity.
- ✓ Accessing healthcare or government benefits in your name



Business Identity Theft

- Involves stealing a business's identity to obtain credit, loans, or purchase goods and services, leaving the business liable for debts.
- To commit fraud, evade taxes, or acquire goods without payment.

- ✓ Opening lines of credit using a business's name and tax information.
- ✓ Filing false tax returns to get refunds.



Medical Identity Theft

- When someone uses your identity to obtain medical care, prescription drugs, or health insurance benefits.
- To receive medical treatment, surgeries, or medications fraudulently.

- Using stolen health insurance information for medical procedures.
- Altering medical records, which can lead to dangerous health consequences.



Synthetic Identity Theft

- Involves creating a new, fake identity by combining real and fake information (e.g., using a real Social Security Number but a fake name).
- To open bank accounts, apply for loans, or obtain credit cards using a fabricated identity.

Examples:

Using synthetic identities to apply for government benefits.



Child Identity Theft

 Involves stealing a child's Social Security Number or personal details to create fraudulent accounts or take out loans.

Examples:

➤ Opening credit cards, loans, or utility accounts using a child's identity.



Techniques of ID Theft

- 1. Human-Based Methods
- 2. Computer-Based Technique



Human-Based Methods

- Direct access to information (Degree of Trust)
- Dumpster Diving
- Theft of a wallet
- Mail Theft and re-routing
- Shoulder Surfing
- Skimming
- Dishonest Employees
- Fake Telephone calls



Computer-Based Technique

- Backup Theft
- Hacking
- Phishing
- Pharming
- Geotagging
- Redirectors
- Hardware



Identity Theft Countermeasure

- Strengthen Online Security
- Protect Personal Information
- Secure Financial Transactions
- Prevent Medical & Business Identity Theft
- Respond Quickly to Identity Theft
- Awareness and proactive security practices



Summary

- Phishing
- Types of Phishing
- Toolkit
- Identity Theft
- Countermeasures

