



SNS COLLEGE OF ENGINEERING

Coimbatore-35
An Autonomous Institution



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF CSE (IoT & Cyber Security including Blockchain Technology)

19SB502 – CYBER FORENSIC AND INVESTIGATIONS

III YEAR/ V SEMESTER

UNIT 5 - ETHICAL HACKING IN WEB

TOPIC 1 – Social Engineering

9/27/2024



Social Engineering

- In a security context, Social Engineering can be defined as:
- A combination of social, psychological and information gathering techniques that are used to manipulate people for nefarious purposes.
- It target humans rather than technology to exploit weakness in an organizations security.



Social Engineering

- Is the art of manipulating people so they give up confidential information
- Attacker uses human interaction to obtain or compromises information
- Tricking people to get information
- Most common type of SE happens over the phone





Kevin Mitnick - Famous Social Engineer

"People are generally helpful, especially to someone who is nice, knowledgeable or insister."





Social Engineering Cycle





Techniques of Social Engineering

- Pretexting
- Phishing
- Vishing
- Baiting
- Quid pro quo
- Diversion Theft





Pretexting

- Creating fake or invented scenario





Phishing

- Obtaining information through email, websites
- Websites like <http://shadowwave.co>



Sending fake mail to victim



Spear Phishing

- More specific to the victim
- Target individual



Vishing

- Phone Phishing





Baiting

- Using Trojan Horse that uses physical media and relies on the greed of the victim



Web Click Baiting

- Something on Internet makes you to click



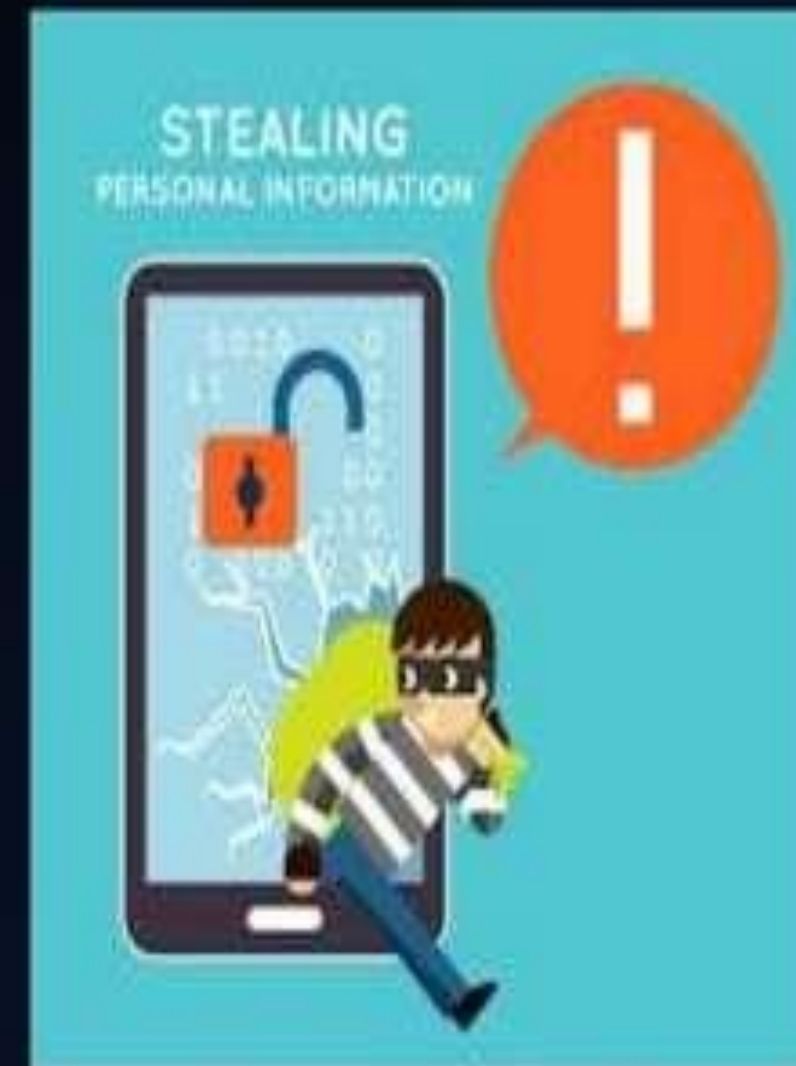
Quid pro quo

- Something for something
- Call random numbers at a company, claiming to be from technical support.
- Eventually, you will reach someone with a legitimate problem
- Grateful you called them back, they will follow your instructions
- The attacker will "help" the user, but will really have the victim type commands that will allow the attacker to install malware



Diversion Theft

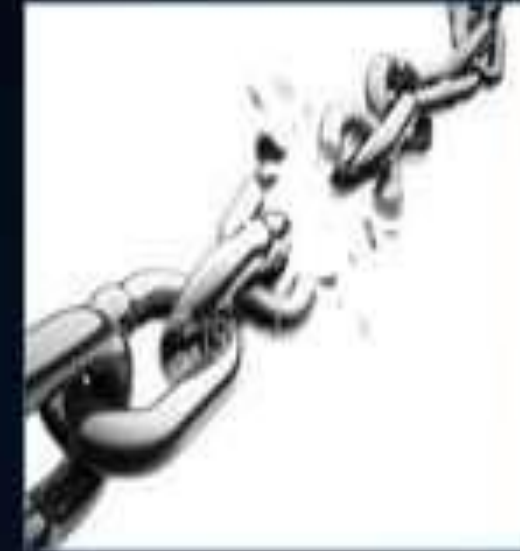
- Divert actual delivery location to some other place and theft information.





Weakest Link?

- No matter how strong your:
 1. Firewalls
 2. Intrusion Detection System
 3. Cryptography
 4. Antivirus software
- We are the weakest link in computer security !
- People are more vulnerable than computers





General Safety / Prevention



- Before transmitting personal information over the internet, check the connection is secure and check the URL is correct
- If unsure email message is legitimate, contact the person or company by another means to verify
- Be aware of excited content on the Internet.
- Making policies to verify different source rather than single source.



THANK YOU