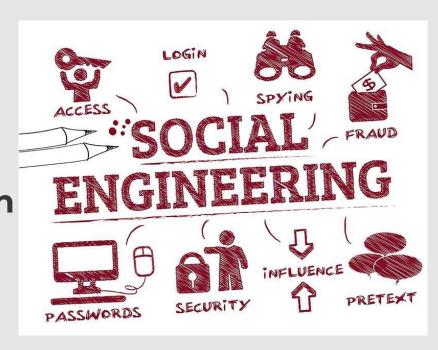


# Social Engineering

## **Social Engineering**

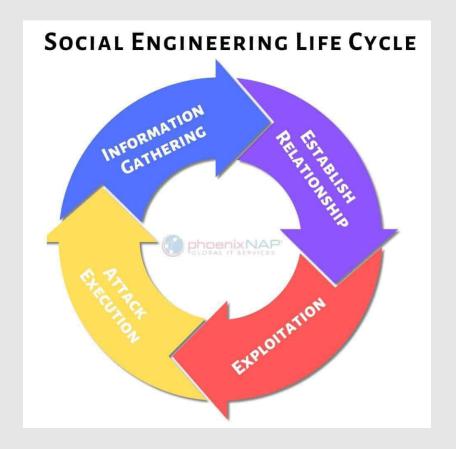
- Social Engineering is a component of the attack in nearly 1 of 3 successful data breaches
- Manipulation of individuals in seeking action or the release (divulging) of sensitive information
- Influence over another which is not in their best interest





## Life Cycle of Social Engineering

- Information gathering
- Engaging with victim
- Attacking
- Closing interaction





#### **Types**

**Baiting:** Like phishing, but using different items to lure victims

**Dumpster diving:** Physically sorting through rubbish

**Pretexting:** Providing background or pretending to be another

**Phishing:** Baiting with fake links to fake resources

**Pharming:** DNS level redirection to fake resources

**Reconnaissance:** Information gathering

Surveillance: Observing

**Shoulder surfing:** Watching over someone's shoulder for information or passwords

**Tailgating:** Trick employees to open doors for attackers



# **Baiting**

- Similar to Phishing
- Different items used to entice victim
- Free music, movies, keygens, software...





## **Dumpster diving**

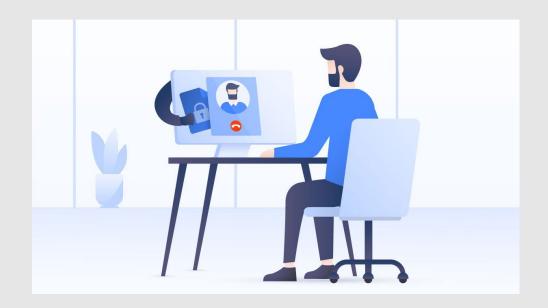
- Attacker physically visits target's location and searches the rubbish to find useful information
- Financial paperwork
- User manuals (software, hardware)
- Used to support future pretexting attack
- https://youtu.be/c81NYcP2C0E





## **Pretexting**

- Defined as the practice of presenting oneself as someone else in order to obtain private information
  - Good, compelling story
  - Fabricated scenario
  - Not a one-size fits all
    - Good targets: help desk, librarians





## **Phishing**

#### Most phishing scams endeavour to accomplish three

#### things:

- > Obtain personal information
- > Redirect users to suspicious websites
- Manipulate the user into responding quickly





## **Pharming**

## Setting up a fake web site which harvests user input

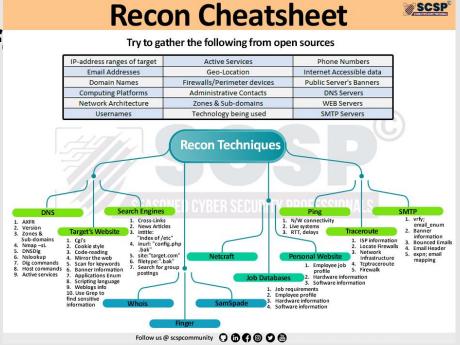
- > Fake banking site
- Uses current graphics, styles from real site
- > stores user name and password and then redirects user to the real site
- Fake anti-virus site (download "patches " containing malware)
- > Similar domain name to legitimate sites





#### Reconnaissance

- Date of birth (age + birthday)
- Names or relatives, pets
- Car Rego
- Password dumps from hacked sites





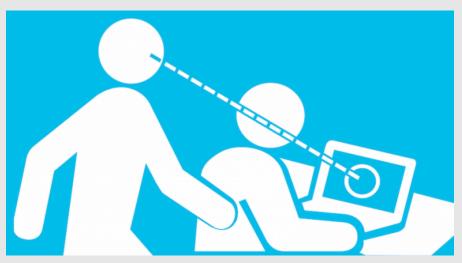
#### Surveillance

- Google Earth
- Street View
- Surveillance cams
  - http://mashable.com/2014/11/10/naked-security-webcams/
  - https://brinkshome.com/smartcenter/hacked-home-security-cameras-list
  - http://www.insecam.org/en/bycountry/AU/



## **Shoulder Surfing**

 After gaining entry to the target premises, attacker watches people logging on to their computers to get credentials





# **Tailgating**

 Trick employees to open doors for attackers

Existed in every organisation





# **Helpful Tips - Defence**

- Slow down
- Research the facts
- Don't let a link be in control of where you land.
- Email hijacking is rampant
- Beware of any download
- Foreign offers are fake

