# Social Engineering MARK SHTERN

## Social Engineering

SE is manipulating a person into knowingly or unknowingly giving up information

Psychological manipulation

► Trickery

#### Goals

Install spyware, other malicious software

Trick persons into handing over passwords and/or other sensitive information

#### Movie

- http://www.youtube.com/watch?v=8TJ4XOvY7II& feature=related
- http://www.youtube.com/watch?v=kW1DPPp1VQ

### Attack Pattern

- Information gathering
- Developing relationship
- Exploitation
- Execution

#### Human nature

- Reciprocity Principle People tend to feel obliged to discharge perceived debts.
- Authority Principle People tend to respond to authority figures
- Social Proof Principle People tend to use people who are similar to themselves as behaviour models
- Scarcity Principle People value things they perceive as scarce more than things they perceive as common
- Consistency / Commitment Principle People tend to act to maintain their self image (even without conscious knowledge)

#### Tactics

#### Pretexting

- Phishing
- Fake Websites
- Fake Pop-up
- Phone Social Engineering
- Spoofing
  - CallerID
  - ► SMS
- ► TinyURL

#### Examples

#### Facebook

- Made a fake Facebook account to get access to your friends list.
- ► Twitter
  - photo advertising a video with girls posted
    - "new version of Adobe Flash" is required to watch the video

### RSA: Phishing Attacks

Sent phishing e-mail

Subject

"2011 Recruitment Plan"

- Attachment
  - Excel spreadsheet with discovered Adobe Flash zero day flaw CVE 20110609
  - ▶ Trojan
- Harvested credentials
- Obtained privileged access to the targeted system

#### Countermeasures

Security policy

- Physical security
- Education/Awareness