

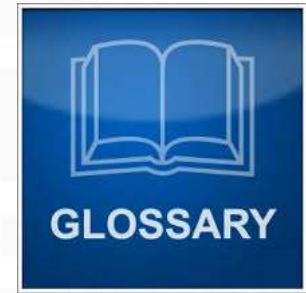
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Module 6. Social Engineering Penetration testing course



Social engineering

- The “hacking” of people.
- Obtaining, collecting, and using unauthorized information garnered via technical and non-technical means while interacting with others.
- Involves persuasion, lies, manipulation, and many other crafty methods while relying on a person’s natural sense to be helpful and their lack of understanding that the information being released is sensitive and/or confidential
- Use psychology methods in malicious way



Types of Attacks

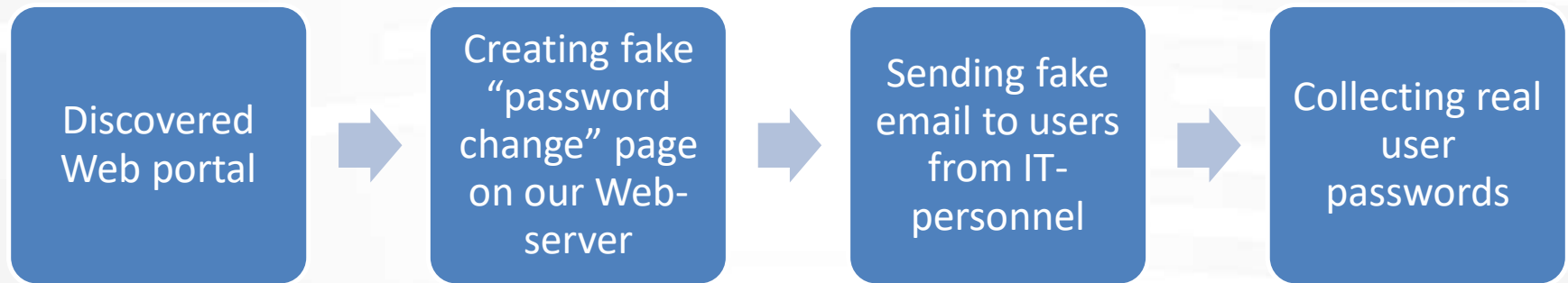
- Phishing
- Impersonation on help desk calls
- Physical access (such as tailgating)
- Shoulder surfing
- Dumpster diving
- Stealing important documents
- Trojans



Phishing



Example of phishing scenario for penetration testing



Impersonation on phone calls

- Impersonation on help desk calls
- Usually someone with authority



Example

- Penetration tester intercepts communication between administrator's computer and border router.
- When administrator tries to login to router he will get message that certificate is not valid. In normal situation he will stop.
- To enforce human error penetration tester could call to administrator pretending to be a top manager and ask him to solve the problem with internet.



Physical access

- Tailgating\Piggy backing
- Ultimately obtains unauthorized building access



Shoulder surfing

- Someone can watch the keys you press when entering your password
- Hidden cameras\binoculars may be used



Dumpster diving

- Looking through the trash for sensitive information



Stealing important documents

- Can take copy of documents on someone's desk

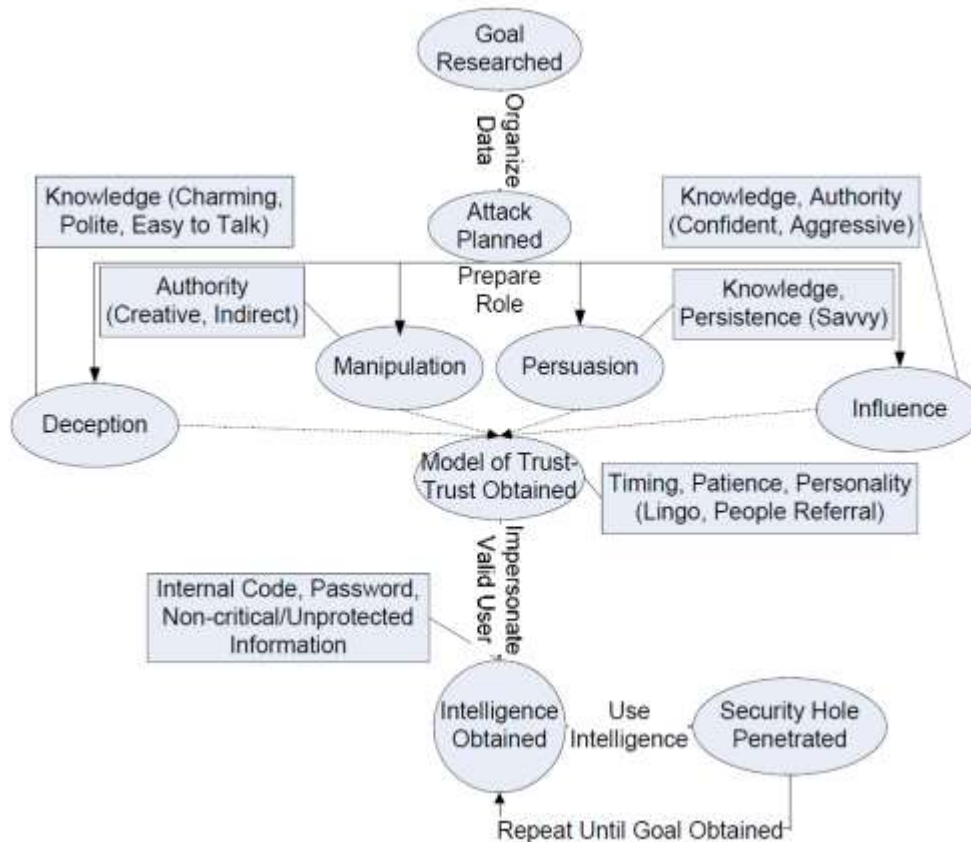


Trojans

- Appears to be useful and legitimate software before running
- Performs malicious actions in the background
- Does not require interaction after being run



Social engineering attack model



SET – social engineering toolkit

```
Shell - Social Engineering Toolkit
Session Edit View Bookmarks Settings Help

[---] Homepage: http://www.secmaniac.com [---]
[---] Framework: http://www.social-engineer.org [---]
[---] Over 1.4 million downloads and counting. [---]

Welcome to the Social-Engineer Toolkit (SET). Your one
stop shop for all of your social-engineering needs..

DerbyCon 2011 Sep30-Oct02 - http://www.derbycon.com

Select from the menu:

1. Spear-Phishing Attack Vectors
2. Website Attack Vectors
3. Infectious Media Generator
4. Create a Payload and Listener
5. Mass Mailer Attack
6. Teensy USB HID Attack Vector
7. SMS Spoofing Attack Vector
8. Update the Metasploit Framework
9. Update the Social-Engineer Toolkit
10. Help, Credits, and About
11. Exit the Social-Engineer Toolkit

Enter your choice: █
```



SET

The Social Engineer Toolkit incorporates many useful social-engineering attacks all in one interface. The main purpose of SET is to automate and improve on many of the social-engineering attacks out there. It can automatically generate exploit-hiding web pages or email messages, and can use Metasploit payloads to, for example, connect back with a shell once the page is opened

