

Intro to Cybersecurity

2.1.1 - Social Engineering



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Intro to Cybersecurity

Activity – 7 Steps of Hacking



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Social Engineering

Definition: threats against the human factors in the technology environment.

- What is the goal of social engineering?

**To get an authorized user to give information
or access to an unauthorized person**

- What methods are used to reach this goal?

Deception and trickery



Social Engineering Continued

- Which of the 7 Steps of Hacking might indicate that humans are our targets?
 - #1 *Recon* and/or #3 *Gaining Access* use the humans in the target organization.
- Why is Social Engineering so successful?
 - Because humans want to be helpful
 - Because humans want to avoid confrontation
 - Because humans often make *sloppy* mistakes

Let's look at some examples



Social Engineering Example

- Example #1: TV5Monde reporter reveals **usernames/passwords**

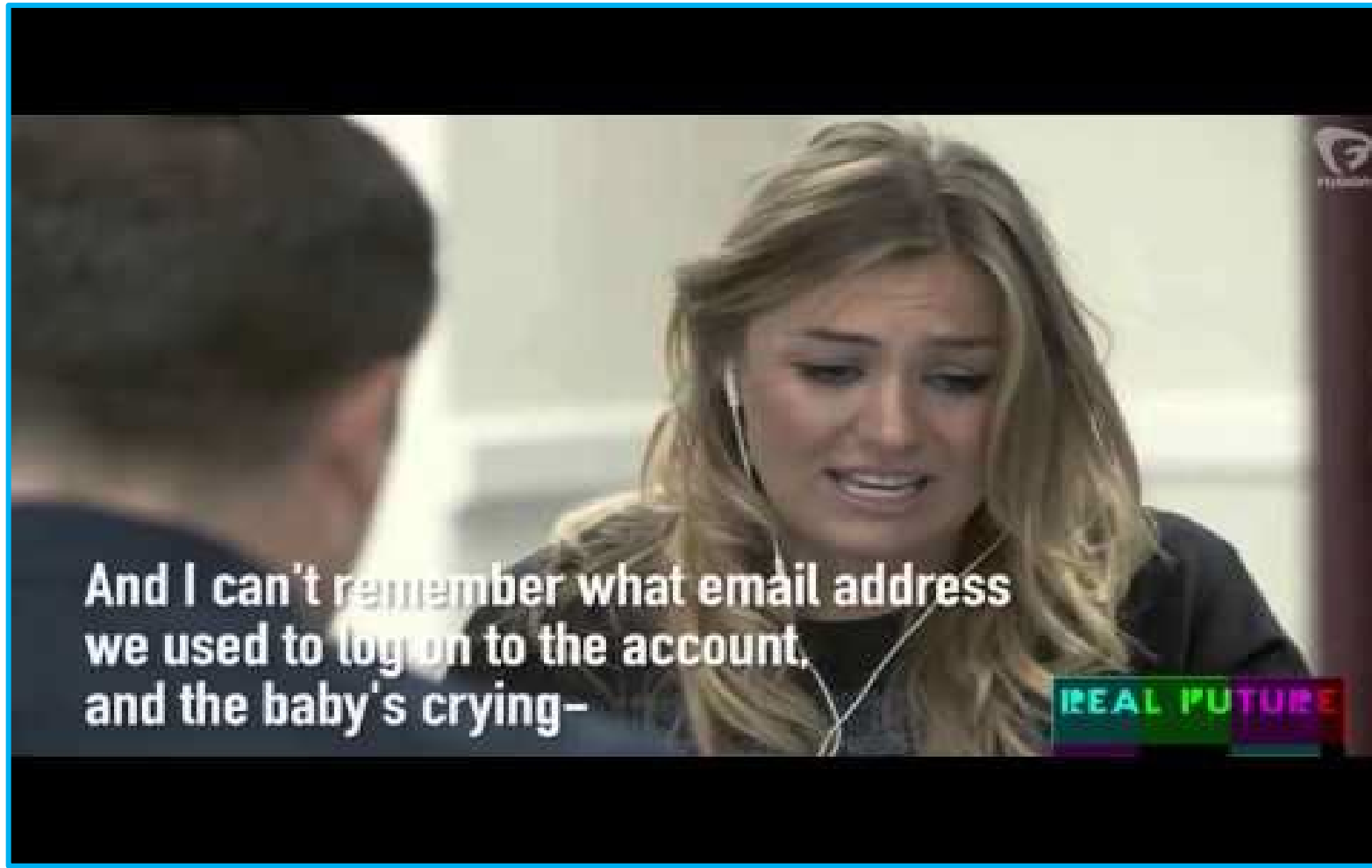


Full article: <http://arstechnica.com/security/2015/04/hacked-french-network-exposed-its-own-passwords-during-tv-interview/>



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Demo of a Vishing attack



Techniques of Social Engineering

1. Baiting
2. Shoulder Surfing
3. Piggybacking / Tailgating
4. Info written in workspace
5. Dumpster Diving
6. Pretexting - impersonation with rushing or “emergency”
7. Pretexting - wearing a uniform or using authority
8. Scareware
 - Phishing / Spear phishing / Whaling → covered in next section

Categorize each:

1. Trying to be helpful
2. Avoid confrontation
3. Sloppy mistake





Protect against Social Engineering

1. Piggybacking → **security guards/gates/turnstiles**
2. Shoulder Surfing → **shield the screen or keypad**
3. Dumpster Diving → **shred discarded documents**
4. Scareware → **use malware scanner**

5. Baiting
6. Info written in workspace
7. Pretexting - all types
8. Phishing - all types

User Security Awareness
and Policies





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Lab – Social Engineering Toolkit



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