

Social Engineering

Human as vulnerability

14.3.2023



Agenda

- Who am I
- What is SE
- Techniques
- Red flags
- Protection measures
- Social Engineer Toolkit (SET)



whoami

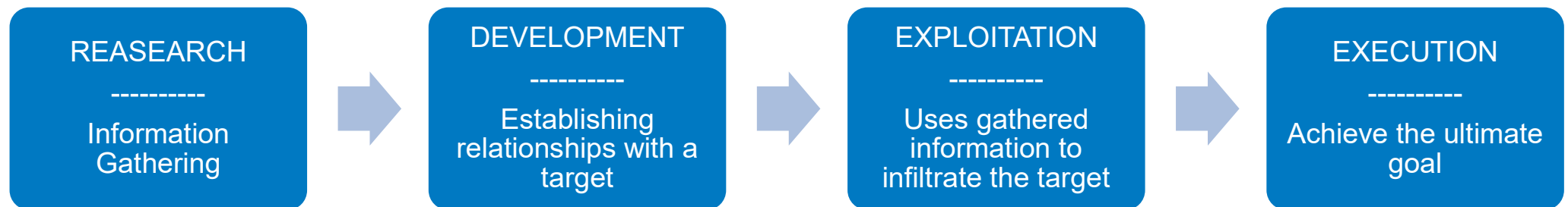
- From Switzerland
- Double degree student



Hes·SO
Haute Ecole Spécialisée
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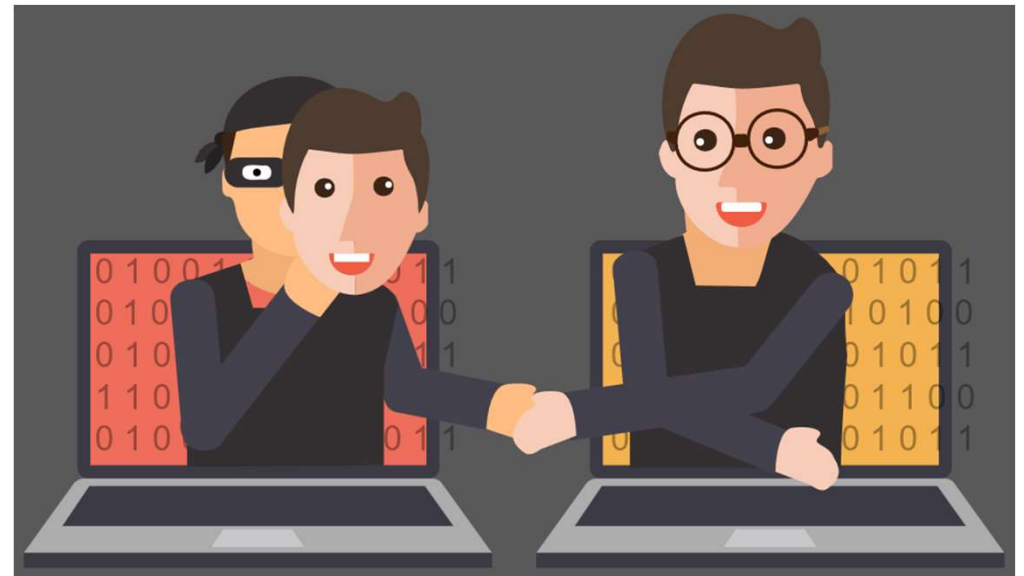
What is social engineering?

- Cybersecurity attack
- Based on psychological manipulation
 - Emergency
- Purpose is to gain the victim's trust
 - Victim will perform actions

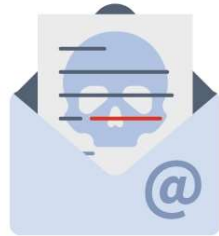


Techniques

- (Spear) Phishing
 - Create a fake (emergency) situation
- Baiting
 - Leave a USB key in public
- Tailgating
 - Follow closely an employee to enter a building
- Watering hole
 - Compromise a website that is frequently visited by a group
- Scareware
 - Victims are bombarded with alarms



Social Engineering red flags



Your 'friend' sends you a strange message.



Your emotions are heightened.



The request is urgent.



The offer feels too good to be true.



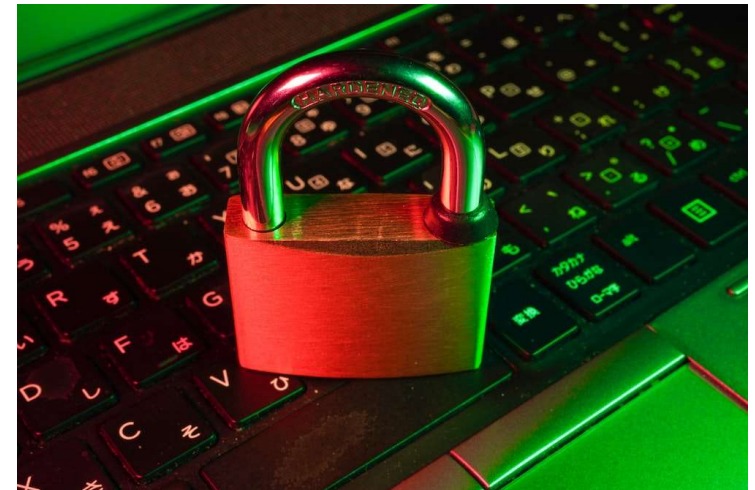
You're receiving help you didn't ask for.



The sender can't prove their identity.

Protection measures

- Strong password and multifactor authentication
 - Password manager
- Education and awareness
 - Helps people to respond to social engineering attacks
- Limit access to your data
 - Privacy settings on social media
 - Limit the published information
 - Be careful with contact on social media
- Physical security
 - Restrict access
 - Check identify





SocialEngineer

Toolkit



Sources

- Wikipedia – Social Engineering -
[https://en.wikipedia.org/wiki/Social_engineering_\(security\)](https://en.wikipedia.org/wiki/Social_engineering_(security))
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<https://www.bbc.com/news/business-35201188>
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- Kaspersky – What is Social Engineering?
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- Norton – What is social engineering?
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- Social Engineer Toolkit (SET)
<https://github.com/trustedsec/social-engineer-toolkit>



Thank you for your attention