

Task 1: Personal 'hacks' and threats

Most of us have already experiences in 'hacks': Spam mails, viruses and other malware is daily business in the Internet.

Let's consider these common cases:

a) Ransom Ware:

Is a program, which actually encrypts your PC's disk thus data become not accessible any more; except if some money is transferred to the source subject and a decryption key is send:

- <https://en.wikipedia.org/wiki/Ransomware>
- https://www.theregister.co.uk/2018/01/16/us_hospital_ransomware_bitcoin/
- <https://en.wikipedia.org/wiki/Emotet>

Which IT Security principal is violated here?

b) Identity Theft:

Somebody has access to your login accounts by guessing or extracting your personal keyword (*passphrase*).

- <https://twitter.com/hashtag/identitytheft>
- <https://www.heise.de/newsticker/meldung/Politiker-und-Promi-Hack-Ehemaliges-Tw.html>

Is this issue part of the magical CIA triangle in IT Security?

c) Phishing:

In case somebody tries to contact you and are urged respond with immediate trust. Probably because the person contacting you seems to be familiar or originating from a trustful source. Rather, your identity becomes abused or your PC/Smartphone becomes infected, while either doing espionage or abusing your resources.

How is Phishing related to Identity theft?

d) Black Mailing:

Someone contacts you and pretends to have compromised material of you to be disclosed if you do not pay, for instance some amount in BitCoins ₿.

Check out the material for lecture 1 on Moodle. You will find:

- Some Blackmails as visible by the email client.
- The Blackmail in raw Internet mail format.
- In comparison: A raw email called 'Beacon.txt'.

- i) How to tell, that the compromised material is never existing, thus you can certainly trash this email?
- ii) How you you advice your mail client on the PC/Smartphone to display more information about the mail received?
- iii) Check the 'Beacon.txt' raw email. Is this phishing? How does the sender know, you've read the email?
- iv) Since I have server high efficient Anti-Spam means in place, how does the Blackmail sender was able to overcome those systems?

Given these examples, compare now the standard 'magical IT security triangle' with my extension: the CAR principals.