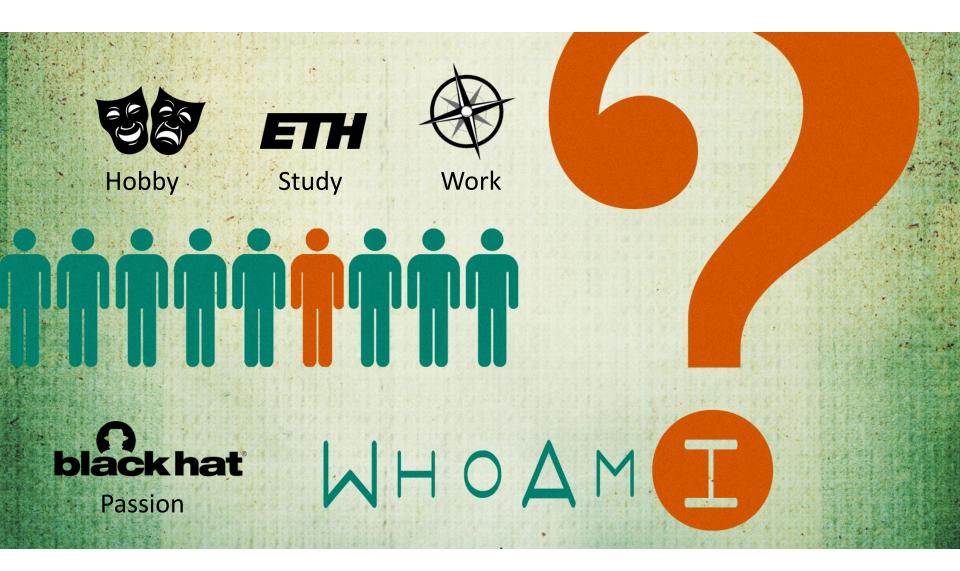


Social Engineering

The devil is in the details

26th November 2019, Ivano Somaini @ CompassSecurity





My first experience...



SOCIAL? ENGINEERING

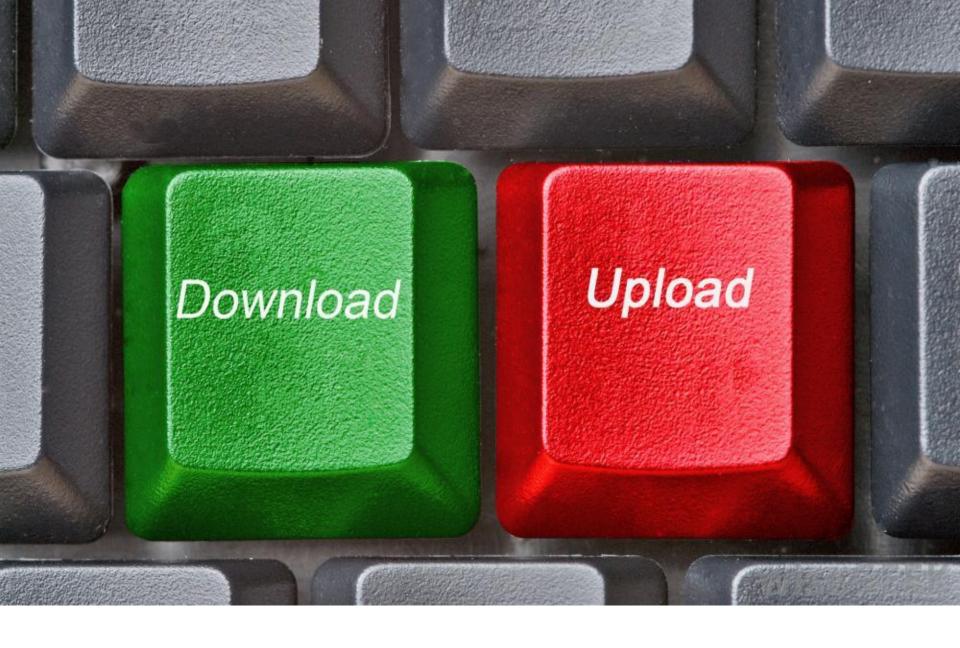
"Any act that influences a person to take an action that may or may not be in their best interest."

social-engineering.org

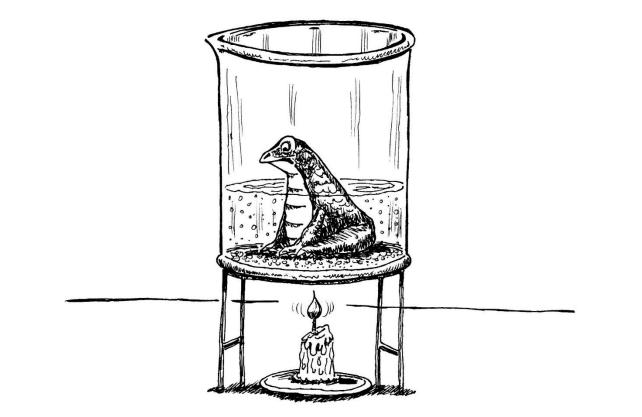
SOCIAL? ENGINEERING

"Any act that influences a person to take an action that is not in their best interest."





Today...boiled Frog





Today I'll present you...



5 social engineering tests...

...which were successful!

Exploit 1 - Helpfulness/Authority



Mission

Goal

- Gain access to the restricted employee area of the building
- Gain access to the internal protected area
- Steal confidential information (i.e. USB sticks, documents etc.)

Information from the customer

- Company name
- Building address

Information Gathering

Information gathered

- Medium-sized private bank
- No public area
- Reception with security guard with full height turnstile with badge reader
- Garage entrance with badge reader
- And...

Attack Scenario

Coffee delivery service coming every day between 07:00 – 07:30



...has access to the garage and a badge for the secondary entrance

Exploit 2 - Curiousness

"Curiosity killed the cat" – Phishing/Baiting





"Lost" USB Stick

....

Mission

Goal

Gain confidential information from employees through indirect attacks

Information from the customer

Company name

Information Gathering

Information gathered

- Swiss Bank
- 500 ~ 600 employee
- Mail address of 250 employee
- And...

Attack Scenario

75th anniversary of the Bank ...time for a bonus?!?



«Wrong» delivery address





Exploit 3 - Holiday



Mission

Goal

Get the IT support company to change a firewall rule

Information from the customer

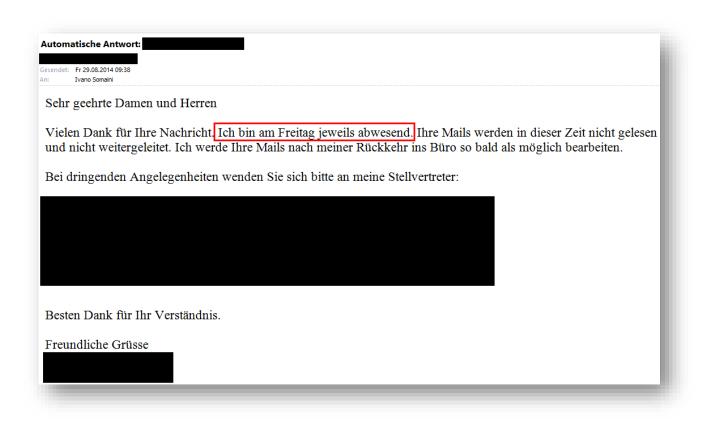
- Company name
- Support company name
- Contact data of the responsible technician

Information Gathering

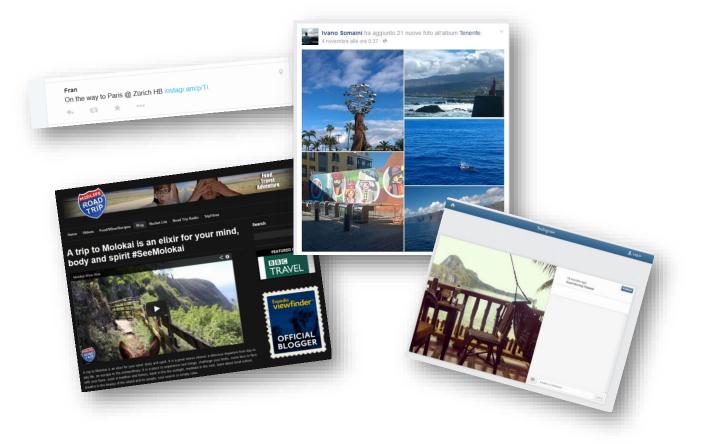
Information gathered

- Name of the boss of the responsible technician
- And…

Attack Scenario



Upload Generation



Pretexting

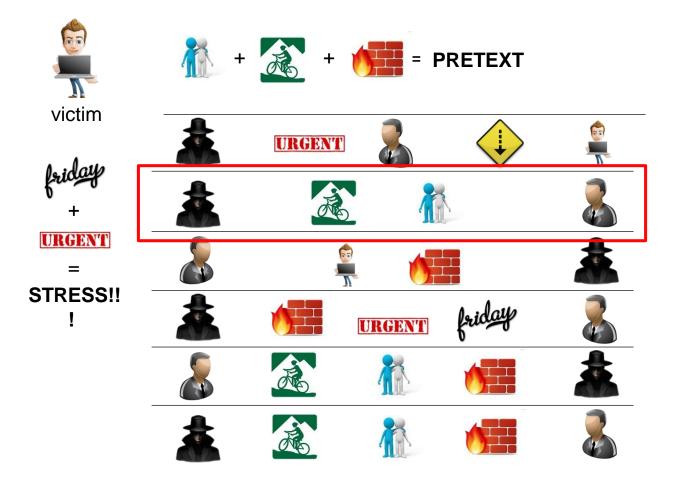


Weitere Informationen

Interessen

Bicycles, design, table soccer, music, movies mountain biking

Fake e-Mail Conversation



Social Engineering Equation



Exploit 4 - BYOD



Mission

Goal

Gain access to the confidential data of the CEO

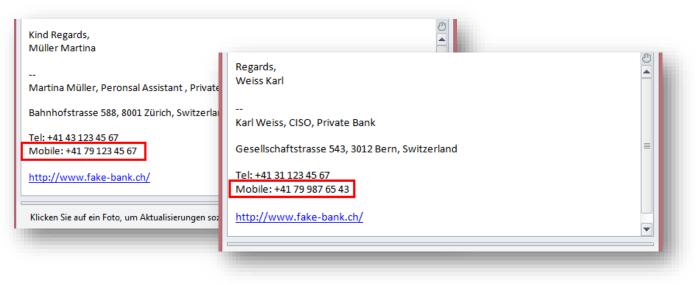
Information from the customer

- Company name
- Name of the personal assistant of the CEO

Information Gathering

Information gathered

- Mobile phone number of CISO
- Mobile phone number of personal assistant of CEO



Attack Scenario

"Hi Martina, this morning during the evaluation of the weekly security scan result we noticed that a security hole allowed a virus to infect many machines. We are further analyzing the issue with an external company.

Ivano Somaini from Compass Security will show up in 15 min at the headquarter in order to analyze your PC. I'll call you in 2 hour to give you an update. Now I've a meeting about the incident. Cheers, Karl"



- SMS Spoofing
- Caller ID Spoofing

Exploit 5 - Events/Festivity



Mission

Goal

- Gain access to the secured area of the building
- Steal confidential information (i.e. USB sticks, documents etc.)

Information from the customer

- Company name
- Building address

Information Gathering

Information gathered

- Traditional Swiss company
- No public area
- Single Point-of-Entry
- Full height turnstile with badge reader

Attack Scenario

It was the 5th of December...



Would you ask Santa Claus for an identification card?

Unintended consequences



Conclusion



Question?

