

INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT GRADUATE INSTITUTE OF INTERNATIONAL AND DEVELOPMENT STUDIES



COMPUTER SECURITY AWARENESS

THE CRITICAL LINK!

The IT Service is doing a great deal to limit the risks related to IT security:

- Antivirus
- Firewalls: protects agains more than 1'000 attacks/day
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There is one very important factor that we cannot control in IT: **YOU!**

You are the critical link: either strong or weak.



PASSWORDS

Weak password consequences

- → Email access
- → Access / Change of data
- → Identity theft

Attacks against passwords

- → Brute-force
- → Wordlist / Dictionary
 - Recovered from pirated sites
- → Fully automated
 - Millions of attempts <u>per</u> second

- → Use a passphrase instead of a password.
 - 3PinkB@nanas
 - !lovelHe1d
- → Keep your password to yourself
- → Do not use your professional password anywhere else.
- → Change your password regularly



VIRUS

Virus and malware consequences

- → Access to the infected device with the same privileges as the user
- → Difficult to remove
- → Cryptolocker / Ransomware

Propagation

- → Social engineering
- → USB keys

Anti-virus

→ Necessary, but not infallible



- → Install only what is necessary
- → Download from an official source
- → Avoid USB keys
- Avoid administrator privileges



COMMUNICATIONS

Computer equipment in constant communication with the world

→ Usually unencrypted

Interception consequences

- → Password theft
- → Credit card theft

WiFi networks

- → Information sent over radio waves
- → Even easier interception
- → Especially on "open" networks: airports, hotels, FastFoods, ...

- → Using encrypted protocols
 - HTTPS
- → Do not ignore error messages
 - Indicates possible interception



SOCIAL ENGINEERING

Social attacks consequences

- → Sensitive data theft
 - Password
 - Bank details
- → Trojan horse

Emails

- → Most common attack vector
 - Free of charge
 - Anonymous
- → Very easy to create identity theft

Phishing

- → Most common social attack
 - · Copy of a known site
 - Sending emails to convince victims to interact with the fake site
- → <u>Typosquatting</u> operation:
 - graduateinstitut.ch

- → Beware of unidentified persons
- → Avoid clicking on links and attachments in external emails
- → Enter the URL of the site yourself instead of clicking on the proposed link.
- → Notify the IT Service desk in case of doubt

It is more likely that you will come across a criminal on the Internet at any given moment than over a lifetime in the real world.

