



The project co-financed by the EU

START2THINK
MediaLiteracy

Digital Security and Safety ABC



CENTRE
FOR INTERNATIONAL
RELATIONS



TODAY WE WILL SPEAK ABOUT:

- How does the internet function?
- How to behave and navigate in the digital environment?



Do you really think that nobody is interested in you?

'Blackmailers stole our Instagram account'

By Tom Espiner
Business reporter, BBC News
© 14 August 2020



Subway customers receive 'malware' emails

© 11 December 2020



5 Million Google Passwords Leaked

Stolen Credentials Surface on Russian Cybercrime Forums

Mathew J. Schwartz (@euroinfosec) • September 10, 2014



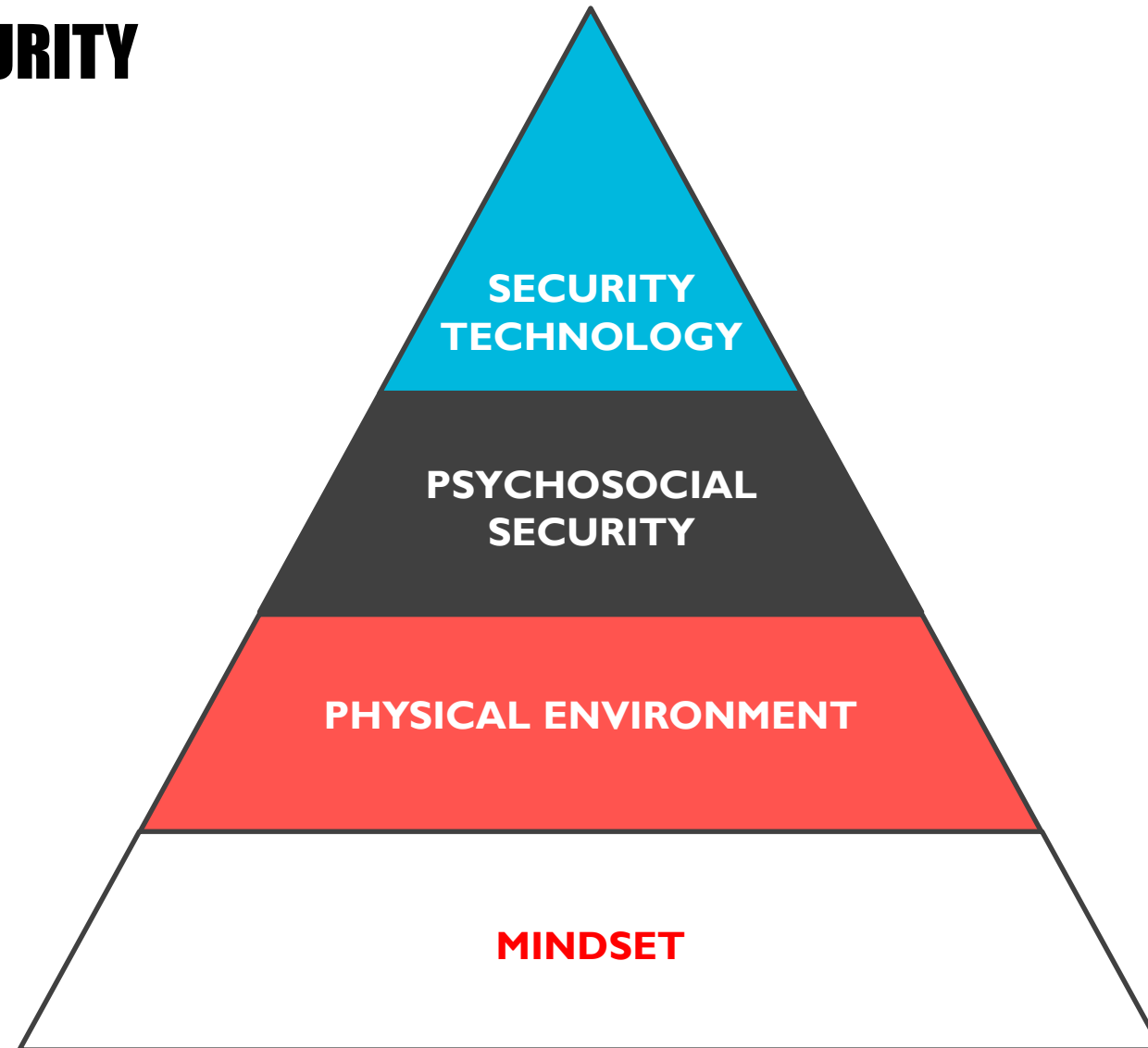
Treatment Records Exposed in Cyberattack on Finnish Therapy Clinics

Michael Behr
27 October 2020, 12.43pm

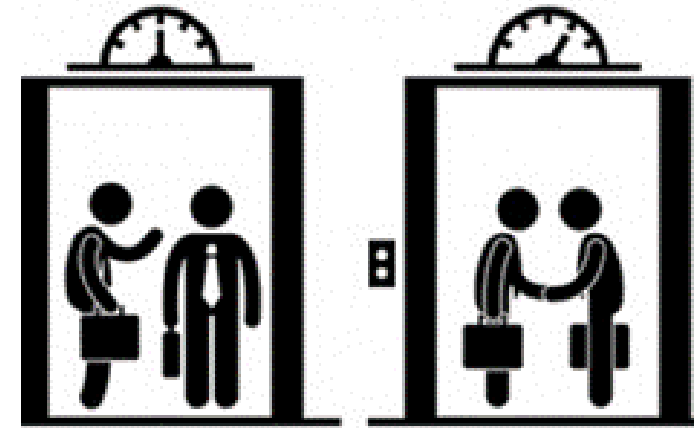
Treatment Records Exposed in Cyberattack on Finnish Therapy Clinics

Michael Behr
27 October 2020, 12.43pm

HOLISTIC SECURITY



Arguing that you don't care about privacy because you have nothing to hide is no different than saying you don't care about free speech because you have nothing to say.



PRINCIPLES OF DIGITAL SECURITY AND LITERACY

- **If the service or product is free, then we are the product, the game.**
- **Our security is as strong as the weakest point in the chain.**
- **Digital security is a journey we plan ourselves.**
- **During this journey, we must always be ready to be beaten.**

WHICH PASSWORD OF THOSE TWO IS STRONGER?

1.

mys3cr3t! – is it a strong/weak password?

may.the.Force.be.with.you – is it a strong/weak password?

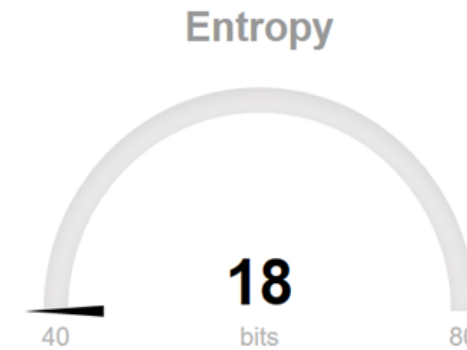
2.

Use MULTI-FACTOR AUTHENTICATION

Passwords

mys3cr3t!

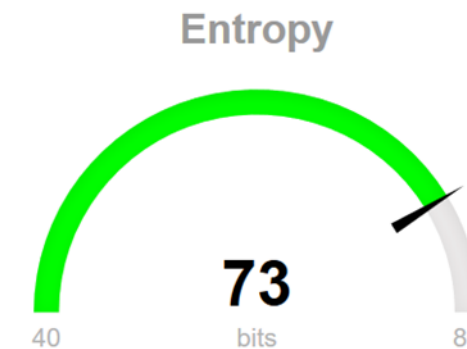
Massive Cracking Array Scenario:
one hundred trillion guesses per second



6 minutes

may.the.Force.be.with.you

Massive Cracking Array Scenario:
one hundred trillion guesses per second



5,53 trillion trillion centuries

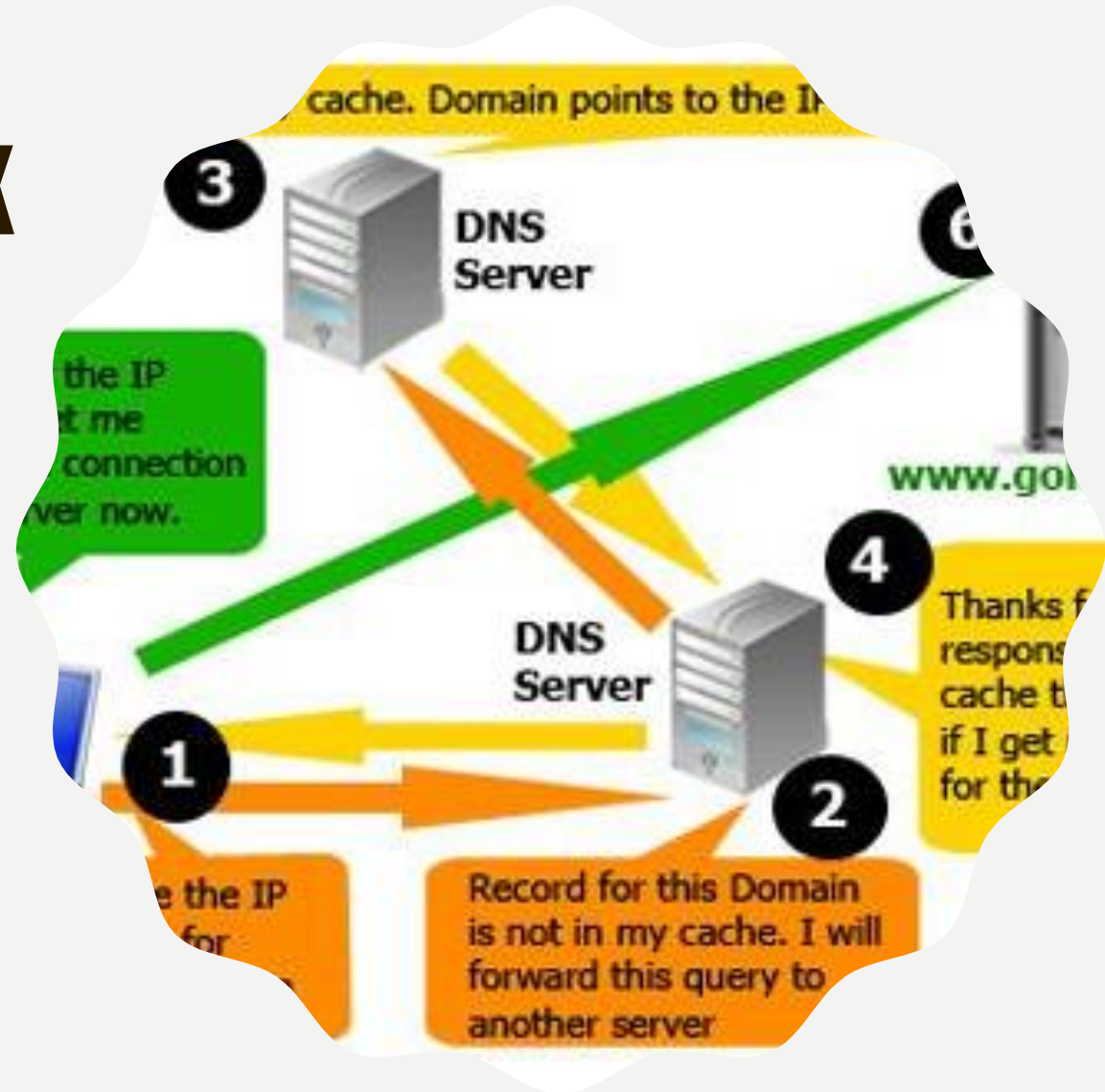
MULTI-FACTOR AUTHENTICATION

Present two or more pieces of evidence to an authentication mechanism:

- **Knowledge** (password, secret question);
- **Possession** (mobile phone, YubiKey);
- **Inherence** (biometric data).



HOW DOES THE INTERNET WORK



*DNS – Domain Name Server

An iceberg floating in a blue ocean under a blue sky with light clouds. The tip of the iceberg is above the water line, while the vast majority of the iceberg is submerged. Three white lines with black dots at the end point from text boxes on the right to specific parts of the iceberg: the top line points to the visible tip, the middle line points to the submerged part just below the surface, and the bottom line points to the deep, submerged base of the iceberg.

World Wide Web

Only 4% of the Internet content.
Includes: public websites such as Google, Amazon, Wikipedia, etc.

Deep Web

Over 90% of the Internet content.
Not accessible via search engines.
Includes: Government Resources, Academic Information, Medical Records, Subscription Information, etc.

Dark Web

Only 6% of the Internet content.
Encrypted networks that need special software to access.
Includes: Stolen and Illegal Information, Illegal Pornography, Drug Trafficking and many other Illegal Sites

How to navigate in the digital space?

Task

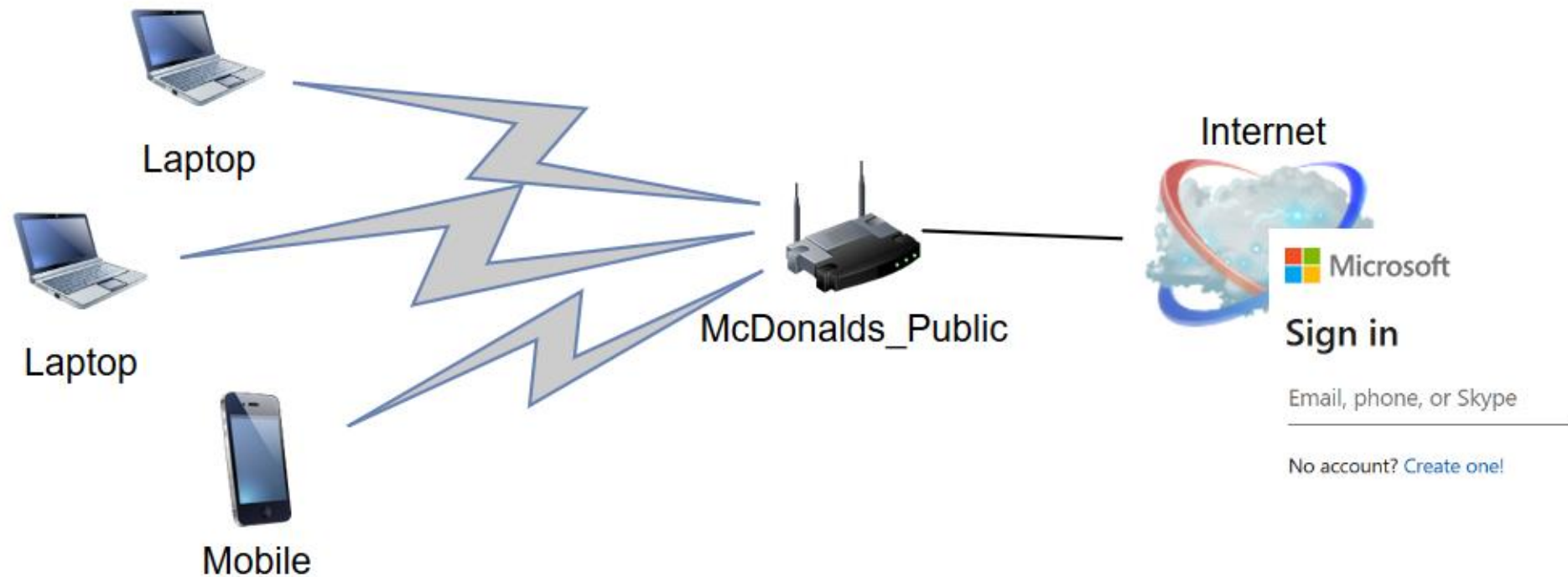
Check if your email address has been compromised:

<https://haveibeenpwned.com>

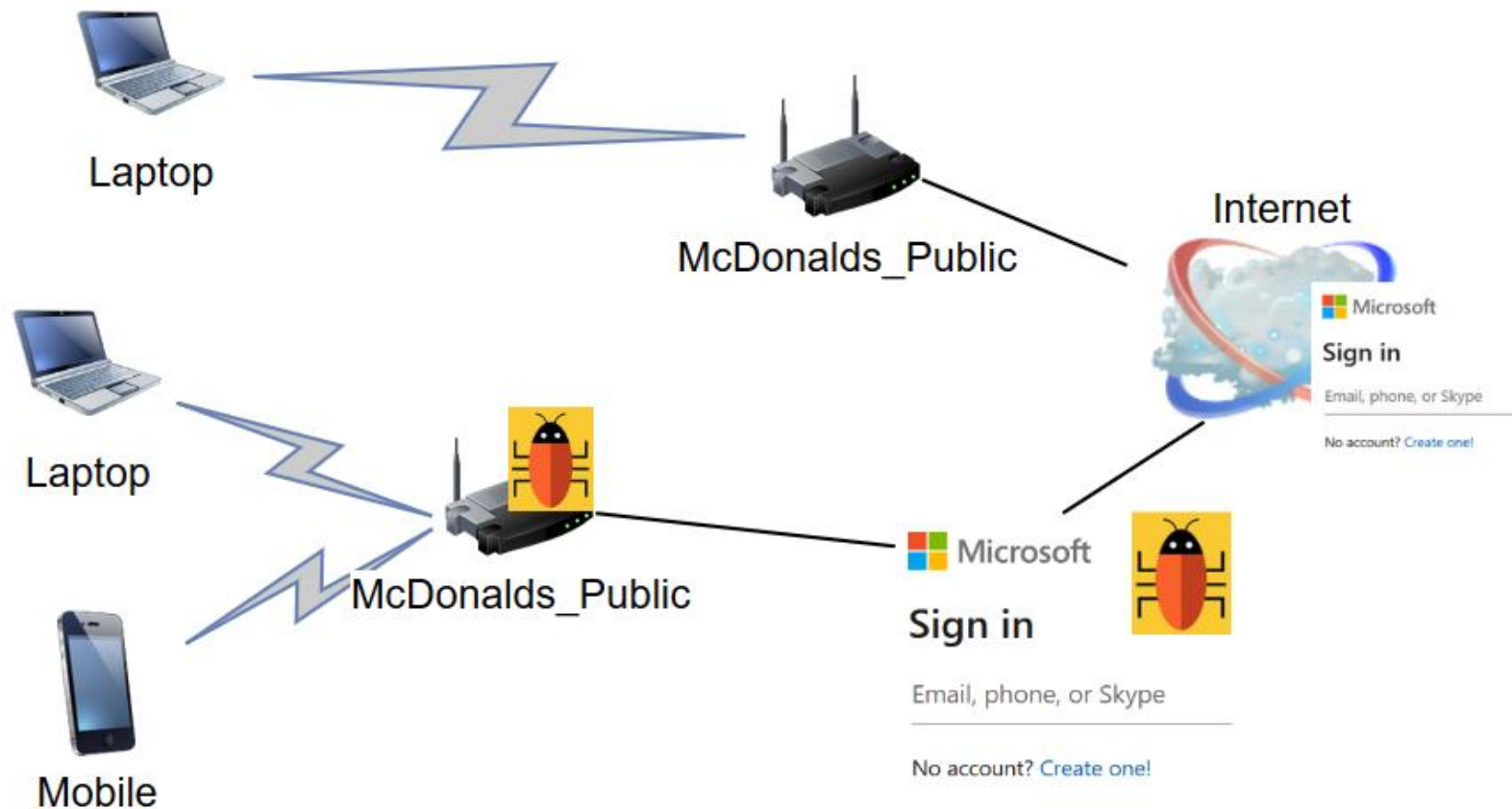
or

<https://www.f-secure.com/en/home/free-tools/identity-theft-checker>

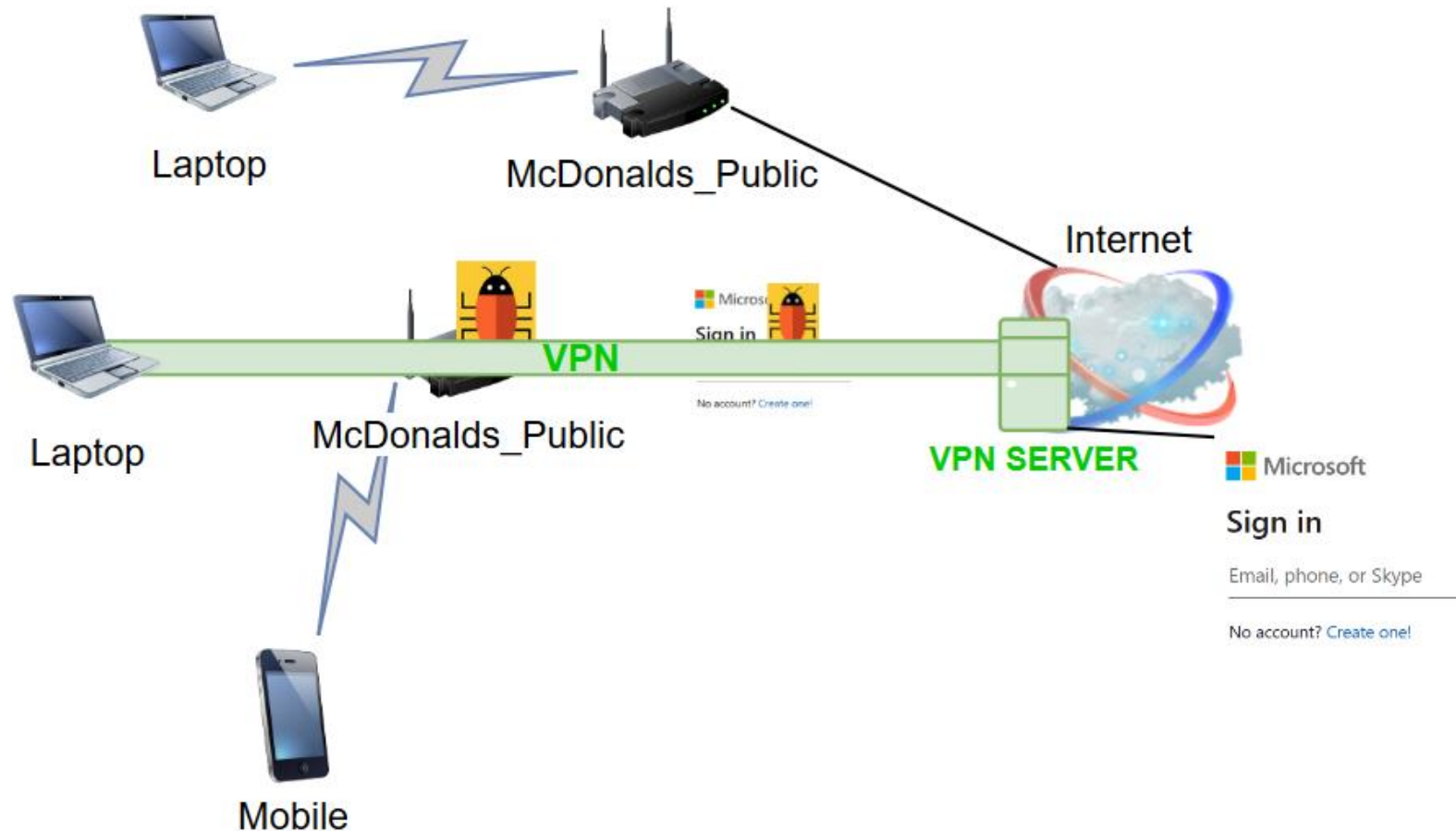
How to act safely in the digital world? (public wi-fi)



How to act safely in the digital world? (public wi-fi)



How to act safely in the digital world? (public wi-fi)





YOU ARE THE WEAKEST LINK

**Social Engineering
You Must Secure**