

Atos Breakout session
12 09 2019 – 10.00

ready, set, hack ! !

Julien Jimenez



Mobile devices such as smartphones and tablets are now used for making purchases, emails, social networking. However, mobile apps are a major target for security threats and could lead to hackers stealing people's financial login credentials and credit card detail, or to giving them access to their business networks. In an era, where mobile security is getting compromised every day, it is very important for companies to take precautions to defend their data from hackers.

Well a first step to stop hackers is to think like one, using the same methods and techniques as them.

This presentation will illustrate in real time the usage of tools like Adb, Frida, Drozer, Burp, or IDA Pro to find security breaches and exploit vulnerabilities in an android application.

The different steps will be :

- Extracting of the application from the smartphone
- Decompiling of the code and the different resources
- Tampering the source code and repackaging of the application
- Instrumenting the smartphone to modify the behavior of the application without modifying it
- Obtain some data insecurely stored

Of course we will also explain how to defend the application to improve the system's defenses via countermeasures like obfuscation, certificate pinning, integrity control, and different detectors.

So, ready, set, hack !

Presenter:

Julien Jimenez



Julien is a security engineer and a member of the Worldline Expert Community. Julien has 11 years of experience in the field of security and trust and more recently in ethical hacking. He is particularly focused on technologies use for payment, from the secure element to the smartphone.