Ch. 0 - Presentation

Secure software development and web security

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Introduction



The teacher

- Romain Absil
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- If you have a question, ask
- Not so formal sessions







The course



Pace

- Dispensed 4h per week
- Labs and theory together
 - Sometimes lab, sometimes theory
- "Optional" presence
 - ... but take responsability
- You're encouraged to come with a computer if you have one

Objectives

- Understand several attacks on system and their applications
 - Buffer overflow, data remanence, injection, etc.
- Design software to be secure
 - Building protocols using cryptographic hash functions, cipher algorithms, etc.
 - Math left aside here
- Use security libraries
 - Honestly, choose what you want (library certification mandatory)
 - Shown here : openssl, java.security
- Implementation of several concepts



Grading you



January

- 100% continuous evaluation
 - 1 Homework: 30%
 - Project (+ defense) : 40%
 - 3 Talk: 30%
- Project
 - Develop a secure (distributed) software
 - Stated as a list of features, you decide where to put security
- Talk : pick a scientific article on security, understand and present it

August

- Fix (alone) what was wrong in January
 - Howework and project
- Another talk
- Oral exam (theoric questions)







Questions





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