

N00B

Kick-off

B2 - Binary Security

B-SEC-200

Why Binary Security?

- Every program is likely to contain conception or logical errors
=> those flaws can be exploited
- WYSINWYX: What You See Is Not What You eXecute
=> the compiled (machine code) is different from the source code



G-SEC-000 Unit

- Basics of security, raise awareness among developers (you!)
- 1 activity: Call for Paper
- 1 project: N.O.O.B (Noob-Oriented Operations on Binaries)



Call for Papers

- Very frequent in Symposiums
=> creates emulation around a topic
- Pick a security-related subject, prepare a presentation or a workshop.
If selected, present it to your colleagues in your local HUB
=> be retransmitted to other HUBs, and potentially appear on the E-learning!
- Participants will see their grade improved!



N.O.O.B

Capture The Flag!

a series of challenges showing a broad variety of basic vulnerabilities

=> exploit them and extract the precious secrets they hide to validate the challenge!



The more a challenge gets validated, the less points it is worth!



Tools

- GDB, IDA Pro, PEDA, radare2
- Metasploit
- pwntools, ROPgadget
- and much more...



Later @Epitech

- 2nd year: Introduction to Web Security
- 3rd year: Introduction to Cryptography
- 4th year: Security oriented courses among universities (Kent, St Petersburg, etc.)
- 5th year: Network Security



Real Life Application

- Better practices in your coding (user input management, password storing policies, ...)
- General awareness of risks and flaws applied to software development
- Security related jobs, in almost every domain:
 - CERT: Computer Emergency Response Team
 - Penetration Testing
 - Risk Analysis
 - Security Architecture
 - ...



Any questions

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