

Operating Systems Security

General information about this course

Radboud University Nijmegen, The Netherlands



Winter 2014/2015

About this course

- ▶ Lecture (hoorcollege): Monday, 10:30–12:30 in HG00.307
- ▶ Exercise class (werkcollege): Tuesday, 15:30–17:30 in LIN 5
- ▶ Exam on Friday, January 22, 8:30–11:30 in LIN 5
- ▶ Exam grade is your final grade for this course
- ▶ 3 EC points
- ▶ Website:
<http://cryptojedi.org/peter/teaching/os-security-2014.shtml>
- ▶ Language of the lectures: English

Teachers

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Homework

- ▶ Homework assignments will be online (at the latest) tuesday morning
- ▶ Homework assignments are due Tuesday (one week later) by midnight (sharp!)
- ▶ Homework submission through Blackboard
- ▶ Homework submission in groups of 2 (preferably)
- ▶ Grading of homework in **g**, **v**, **o**, and **NSI**
- ▶ Grading has no effect on final grade, but:

More than one NSI and you're not admitted to the exam!

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- ▶ Some exercises will use vulnerability scanners and penetration-testing tools
 - ▶ Nessus
 - ▶ Metasploit
 - ▶ ...

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- ▶ How the OS helps to make memory attacks harder
- ▶ What malware is and how it hides from malware scanners
- ▶ How operating-systems can be “hardened”
- ▶ Hopefully: a view on an OS designed for security

Disclaimer

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- ▶ In the homework, don’t break anything that others still need
- ▶ Be careful when attacking your own machine:
 - ▶ Make sure that you attack the *virtual* machine
 - ▶ Make sure that the attack only affects the virtual machine