Network Security General information about this course

Radboud University, The Netherlands



Autumn 2015

About this course

- ► Lecture (hoorcollege): Wednesday, 10:30–12:30 in HG00.071
- ► Exercise class (werkcollege): Thursday, 8:30–10:30 in HG00.068
- Exam on Friday, November 6, 8:30–11:30 in E 0.51 (zijzaal De Refter)
- Exam grade is your final grade for this course
- 3 EC points
- Website: http://cryptojedi.org/peter/teaching/ network-security-2015.shtml
- Language of the lectures: English

Teachers

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Homework

- Homework assignments will be online (at the latest) thursday early morning
- Homework assignments are due Thursday (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!

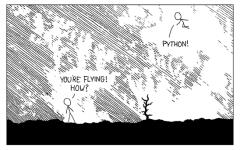
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- Alternative: Use Linux in a virtual machine
- Small wireless network set up in Mercator I (1st floor)
- Mercator I has restricted opening times: 8:00–18:00, Mon–Fri

Programming for homework





Source: http://xkcd.com/353

Python

- Network programming in Python
- Primary target is to get stuff done
- Python is a script language (interpreted language, no compiler)
- Python is easy
- Python has many things built-in
- You can use other languages (but we don't recommend it)

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- Probably not ideal...
- Maybe this changes in the future, probably not

What is this course about?

Examples of what you will learn

- How to break into (badly protected) WiFi networks
- How to read others people's e-mails
- How to set up firewalls (and circumvent them)
- How to get free WiFi in various places
- How to DOS other computers
- How to be anonymous on the Internet

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- If you want to try something out, get consent

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- If you want to try something out, get consent
- ▶ In this course (homework), don't break more stuff than necessary
- ▶ The (vulnerable) toy network is needed for everybody