## Network Security General information about this course

Radboud University, The Netherlands



Spring 2018

# About this course

- ► Lecture (hoorcollege): Monday, 13:30–15:30 in HG00.304
- Exercise class (werkcollege): Wednesday, 13:30–15:30 in MERC I 00.28
- Exam on Monday, June 25, 12:30–14:30 in HG00.304 and HG00.307
- Exam grade is your final grade for this course
- 3 EC points
- Website: http://cryptojedi.org/peter/teaching/ network-security-2018.shtml
- Language of the lectures: English

### Teachers

#### Lecturers

#### Peter Schwabe Office: Mercator I, 3.18 peter@cryptojedi.org

Student assistant

#### **Daan Sprenkels**

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**Pol Van Aubel** Office: Mercator I, 3.20 radboud@polvanaubel.com

### Homework

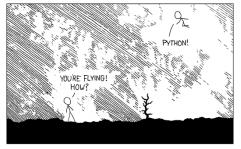
- Homework assignments will be online (at the latest) Wednesday morning
- Homework assignments are due Wednesday (one week later) by midnight (sharp!)
- Homework submission through Blackboard
- Homework submission in groups of 2 (preferably)
- ► Grading of homework in g, v, o, and NSI
- Grading has no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

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

# Homework environment

- Programming courses need a computer (with compiler etc.)
- Network security course needs a network... that you can break
- Breaking into a network typically needs a computer in this network with root rights
- Tools we use are Linux tools
- Idea: Use your own (Linux) laptop
- Alternative: Use Linux in a virtual machine
- Small wireless network set up in Mercator I (ground 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)

What is this course about?

# **Becoming Eve**

# 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

## Disclaimer

- Many things taught in this course are illegal when you do it "in the wild"
- > You're grown up, use your skills responsibly
- 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