Open Source and Summer of Code

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Agenda

- Open Source (Software Livre)
  - Main Advantages
  - Myths and Truths about Software Livre
  - How to make money with Software Livre
- Google's Summer of Code™
  - What is it?
  - Umit
  - How to make your proposal
  - Most important dates for students

Software Livre

- The GNU project, was started in 1984 by Richard Stallman
- Currently, there are several licenses considered “open source”. The GPL is not the only one.

The 4 kinds of Freedom

1. The freedom to run the program, for any purpose
2. The freedom to study how the program works, and adapt it to your needs
3. The freedom to redistribute copies
4. The freedom to improve the program, and release your improvements to the public

GPL License Compatibility

- There are licenses considered open, but that are **not** compatible with GPL
  - Apache License
  - CDDL
  - Eclipse Public License
  - PHP License
  - and many more...

The bad guy: Proprietary Software

- Users became hostages of proprietaries technologies
  - AutoDesk's AutoCAD
- The monopoly of technologies delay their progress
- Sometimes, the proprietary software is more expensive than machine that will run it
- It's not possible to adapt proprietary softwares to your needs

The nice guy: Software Livre

- Freedom of choice
- Technologies grows faster than normal
- Low cost
- Higher Security and Quality
- It's possible to adapt it to your needs
- and more...

Myths and truths about software livre

- Software livre is free as in beer!
  - No. There is no restriction about this in most of open source licenses. Albeit, it's normal that the vast majority of open source softwares can be freely downloaded from the Internet.

Myths and truths about software livre

- Open Source is insecure because it's open!
  - No. The whole community is witness that the fact of been open have contributed to raise the security level of the code instead of lower it.

Myths and truths about software livre

- If I create an open source software and put a price on it, anyone that buy it can freely distribute it after.
  - Depends. If you use a GPL license, for example, this is truth. The license doesn't say you can't sell your software, but it does determine that it must be freely distributed.

Myths and truths about software livre

- You can't rely on Software Livre. If someday the owners decide to abandon the project you're in trouble.
  - This can happen with proprietary software also, but when it happens with proprietary ones it's far worst, because no one will have the source to continue the project.

Myths and truths about software livre

- I can use Software Livre in my Proprietary Software.
  - Depends. If it is a GPL licensed software, this can't be done. Using, for example, MySQL data base in proprietary softwares without paying the license for it is not right.

How to make money with Software Livre

- Maintainance
- Adaptation
- Training
- Documentation
- Donnations
- External contributions (code improvement)
- Summer of Code ;-)

Google's Summer of Code™

- What is it?
  - Project where Google pays students in the whole world to develop innovative and useful open source software in their summer vacations.

Who can apply?

- From SoC FAQ:
  - As Student: “Google defines a student as an individual enrolled in or accepted into an accredited institution including (but not necessarily limited to) colleges, universities, masters programs, PhD programs and undergraduate programs.”
  - As Mentor Organization: “Mentor organizations must be organizations or individuals running an active and viable open source or free software project”

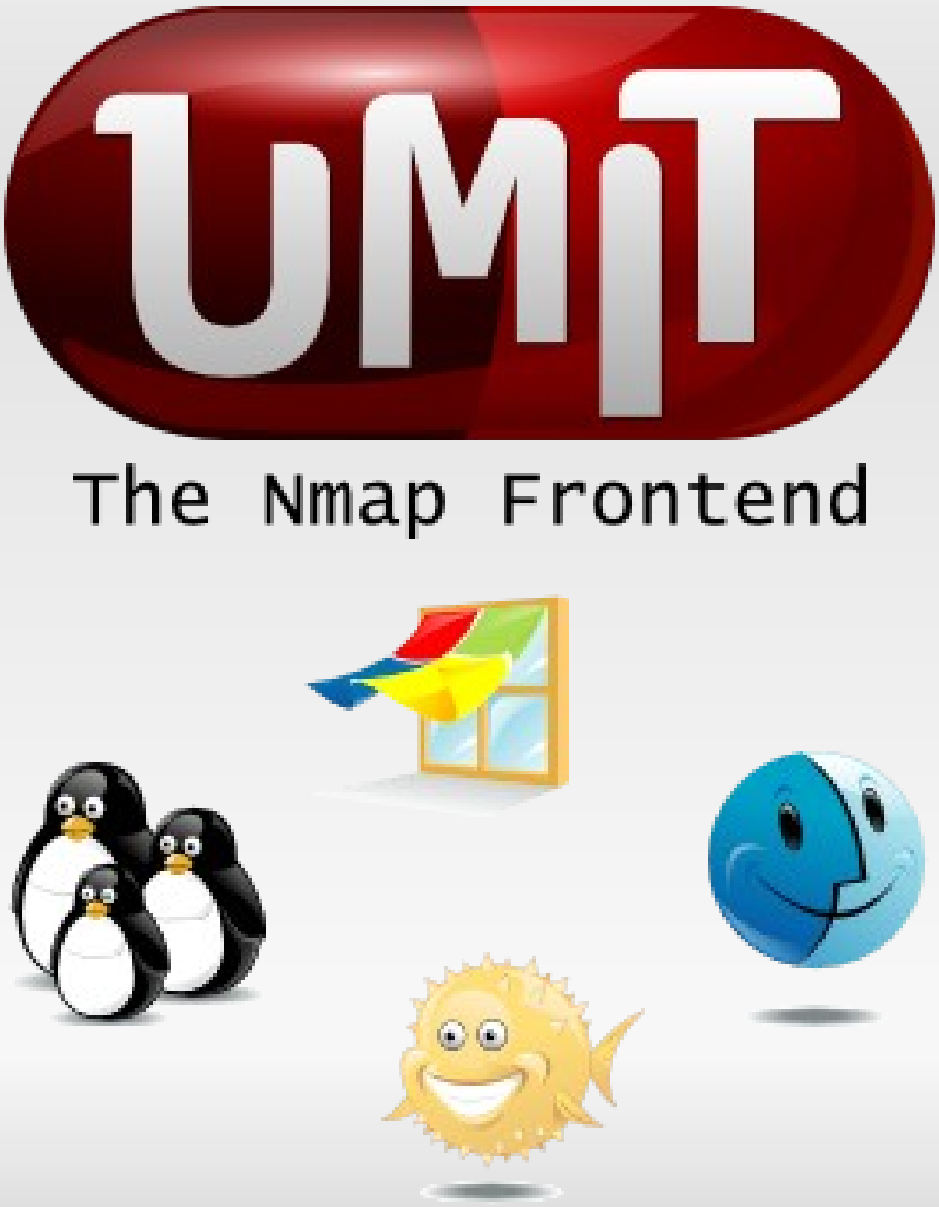
Who selects the applications?

- Students: Mentor organization for which the student sent his proposal
- Mentor organization: Google's Open Source Department, which organize and promote the Summer of Code.

Rewards

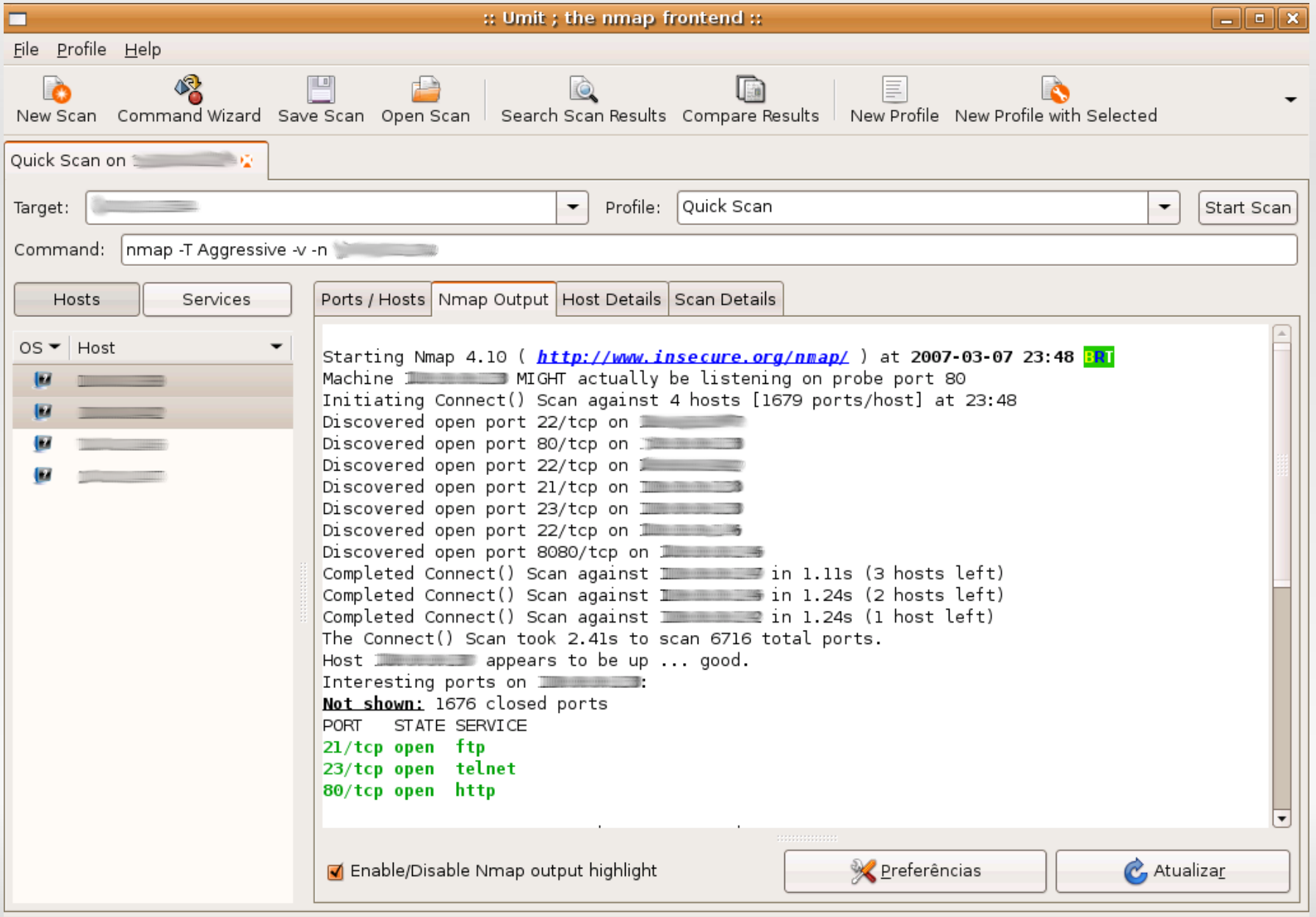
- Experience
- **T-Shirt**
- New Friends
- US$4.500,00
- Incentive to enhance your english (if you don't speak it already)
- The Software livre that you made with the help of the mentoring organization to boost your resume
- Did I mention the **T-Shirt**?

UMIT – The Nmap Frontend



- Started on SoC2005
- Improved on SoC2006
- Cross platform
- Python, GTK and SQLite
- Emphasis on usability(yet, it has too much to be improved!)

UMIT – The Nmap Frontend



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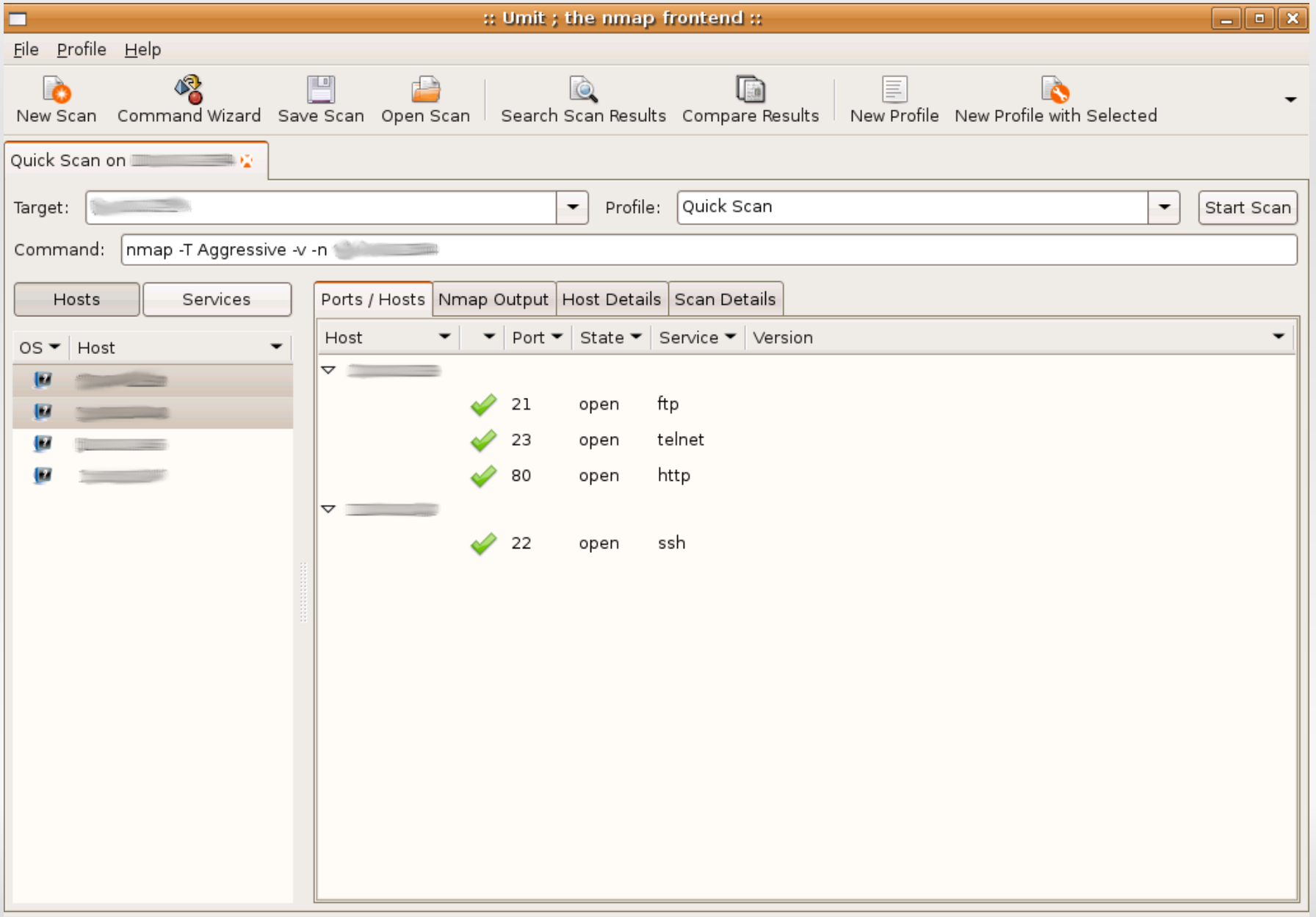

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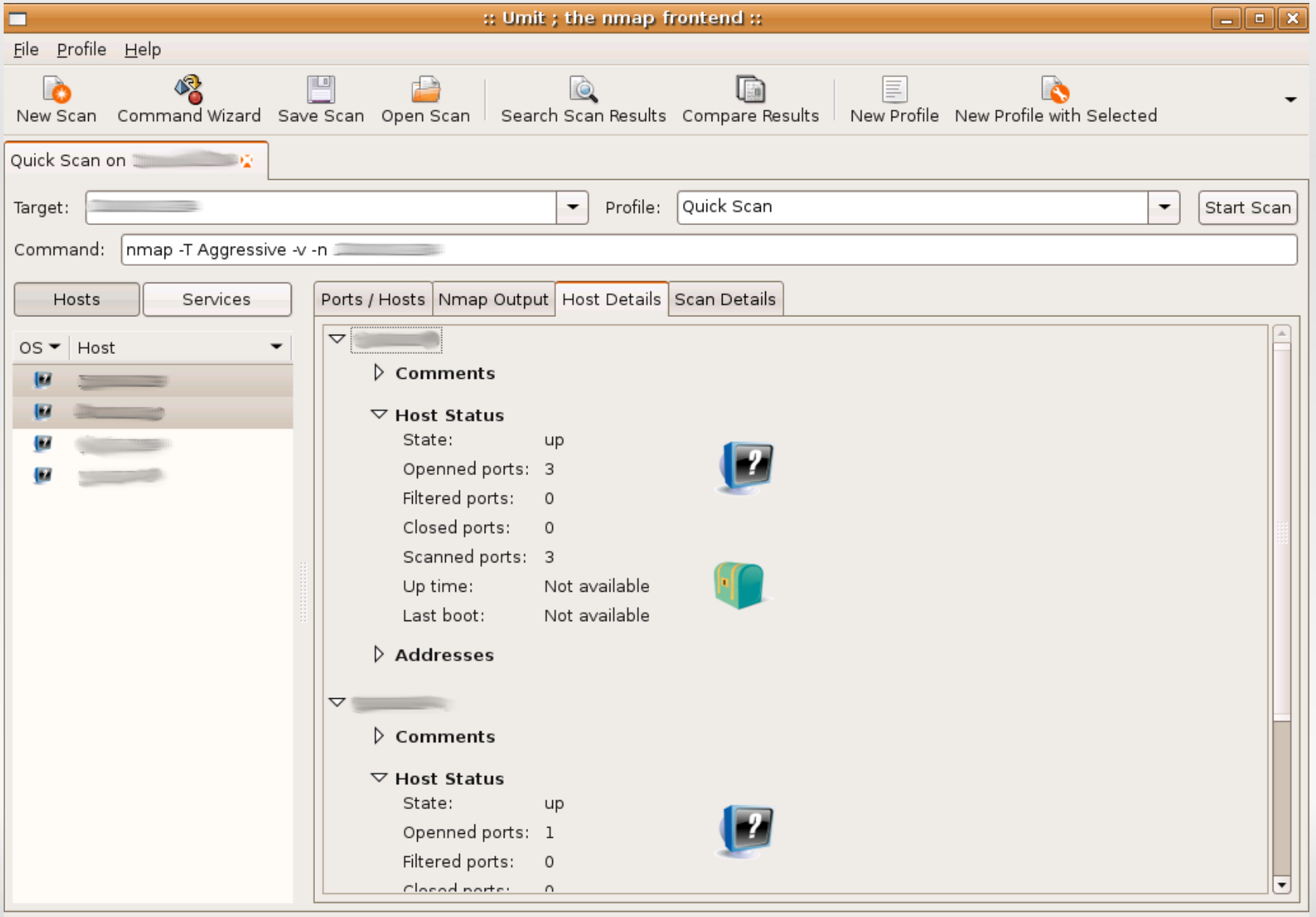

How to participate?

- Go to: http://code.google.com/soc
- Study the proposals or ideas that you think are more interestings
- Select one, or no more than two. It's better to send one very good proposal than several half-done. You can't be accepted in more than one project per Summer of Code.

The proposal: Study the problem

- Study the best way to solve the proposal you choose, basing your argues on:
  - Portability
  - Users caracteristics and behaviors
  - Software Dependencies
  - Development time
  - Runtime performance
  - Which libraries you're going to use
  - The libraries and softwares you chose are open source? Their licenses are compatible?

The proposal: Make a creative document

- Make a creative proposal, with well structured ideas, and if possible, supported by prototypes you made, examples you found and even mockups of the interface
- A very good proposal might take days to be done!

The proposal: Important aspects

- It's very important to show preocupation with the following aspects:
  - Usability
  - Installation
  - Portability
  - Documentation
  - I18N
  - Dependencies

Don't miss the deadline!

- The students proposal deadline is March 24!
  - PS: In the last hours before deadline, the submission page get's really busy, and many can't send their proposals because of that. Don't send it in the last minute!

Most important dates for students

- **14/March**: Students proposals submissions are open
- **24/March**: Submission deadline
- **9/April**: List of accepted students
- **28/May**: Coding time begin. Google starts issuing initial payments

Most important dates for students

- **9/July**: Students must upload their codes to code.google.com/hosting. Mentors begin mid-term evaluations
- **16/July**: Mid-term evaluation deadline. Google begins issuing mid-term payments.
- **20/August**: Students upload their codes to code.google.com/hosting. Mentors begin final program evaluation.
- **31/August**: Final evaluation deadline. Google begins issuing final payments

Thank you!

- Questions?

Open Source and Summer of Code

- Presented at Universidade Estadual de Goiás, 8th, Match 2007.
- Download: http://umit.sourceforge.net/soc2007_en.pdf
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