Introduction to PRLC/LMAND

Theoretical and Lab Exercises

Guido Marchetto

http://netgroup.polito.it/Members/guido_marchetto/
Theoretical Exercises

- Theoretical Exercises on several topics addressed during lectures (Ethernet, Backward Learning, VLAN, etc.)

- Available on the course website:

  http://netgroup.polito.it/teaching/prlc (PRLC)

  http://netgroup.polito.it/teaching/lmand (LMAND)
Rules and submissions

- A total of 6 exercises to submit **weekly**
- **Individual** submissions

- Submissions by **HAND** to one of the professors (during teaching or lab hours) within the specific deadline
  - Handwritten text is perfectly fine

- Solution published on the website the week after

- **Only for the first exam**
  - Students who submitted at least 5 exercises can have up to 3 points summed to the exam grade (if successful)
Lab Exercises

- 3 Lab Exercises
  - Filtering Database
  - Spanning Tree Protocol
  - VLAN

- Optional and without any bonus, however...

- They give you the opportunity to manage a real device
Lab Exercises

- We do not have a lot of devices
- Students must organize themselves in groups of 4 people.
- Each group must elect a leader. The leader is responsible for:
  - Contacting via e-mail the instructor (guido.marchetto@polito.it) to request a valid account to access the NetLab Server.
  - Booking the workplace before starting the lab exercises
    - no more than 2 consecutive hours per day
    - no more than 4 hours per lab exercise
# Group Registration

- [http://spreadsheets.google.com/ccc?key=0Anrv0je_C4NgdG1aMkt3eXQ3MmNsWi1sYmFpMTllb1E&hl=en](http://spreadsheets.google.com/ccc?key=0Anrv0je_C4NgdG1aMkt3eXQ3MmNsWi1sYmFpMTllb1E&hl=en)

## PRLC/LMAND Group Registration

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<tr>
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<td>Fabio Rizzo</td>
<td><a href="mailto:fabio.rizzo@poli.it">fabio.rizzo@poli.it</a></td>
<td>Guido Marcellini</td>
<td><a href="mailto:giuomarcellini@poli.it">giuomarcellini@poli.it</a></td>
<td>Piero Niscoll</td>
<td><a href="mailto:piero@udine.net.it">piero@udine.net.it</a></td>
<td>Libio Tenore</td>
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Networking Laboratories

2 Netlabs

Torino and Mondovì

...... available H24

(Mondovì Lab used by TSR course)
LAB. EXERCISE 1  (Torino Netlab)
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Please follow the instructions provided with the assignment to avoid system unavailability!!!
LAB. EXERCISE 2 (Torino Netlab)

Workplace 1  R1, R2, R3
Workplace 2  R4, R5, R6
Workplace 3  R7, R8, R9
LAB. EXERCISE 3 (Torino Netlab)

Switch A

R1

Fe0/2

Fe0/5

Fe0/8

R3

R2

Fe1

Fe1

Fe1

Workplace 1

Switch B

R4

Fe0/11

Fe0/18

Fe0/21

R5

R6

Fe1

Fe1

Fe1

Workplace 2

Switch C

R7

Fe0/24

Fe0/27

Fe0/29

R8

R9

Fe1

Fe1

Fe1

Workplace 3
Workplace Booking

- http://spreadsheets.google.com/ccc?key=0Anrv0je_C4NgdDZacGdsWnR4SmhIbkNZU0xOOUtTZ2c&hl=en