

TCP/IP Networking 09/10

# Lab Exercises

# RULES OF THE GAME



# General Information

- Webpage:  
<http://icawww1.epfl.ch/cn2/0910/>
- Course in moodle:  
<http://moodle.epfl.ch/course/view.php?id=523>
- You are encouraged to use the Forum in moodle for your questions.
- Moodle Enrolment key: **tcp-ip-09**

## Lab Exercises (TPs)

- There are 4 Lab exercises
- The labs account for 30% of the final grade
- You typically work **in groups of two**

# The Labs

- Lab description (pdf on website)
  - A set of experiments
  - Questions about the results
  - Space for your answers
- **One written report per group**
  - Print the lab description, bring it to the lab
  - Fill in your answers and hand it in.
- **Deadline for hand in:**
  - The week after the last session of the lab, just before the lecture begins.

# TP Report: Answering the Questions

- **Wrong:** “I imagined that this is the solution” – 0 points!
- **Good:**
  - First, I suspected things are so and so (“I posed the hypothesis that ...”)
    - Example: I try accessing a web page, but I get no answer. I guess it is because my requests cannot reach the web server (a networking problem).
  - Then, I ran an experiment to verify the hypothesis
    - E.g.: I ping the web server.
  - In the end: “the results confirmed (or not) the initial hypothesis, **because...**”
    - It cannot be a networking problem, because the server answered to ping: so the machine is up and reachable.
- You get a grade for **explaining why, and for proving it**, not just for running experiments!

## Space-time coordinates

- All labs take place in **INF 019**
- Available slots:
  - A (Thursday, 14:15-16:00)
  - B (Friday, 14:15-16:00)
- Form your group
- Declare it in Moodle (edit the wiki: «TCP/IP Lab Groups»)

## Lab Access

- TPs are designed to be completed in **at most** 2 hours (TP1), 4 hours (TP2, TP4), or 6 hours (TP3)
- All of you have **free access to INF019**, at any time of the day and of the week (exception: maintenance periods)
  - BUT: Assistants will only be there during the designated slots (14:15-16:00)

# Lab Utilization Rules

**You will be asked to accept and sign a document called “Lab Utilization Rules”**

In particular:

- Keep all lab material in a good state
- Watch out for thieves (close windows, doors before leaving)



## USB key

- Load / Save configurations + files
- Two kinds of PCs: Router – Workstation
- Two kinds of USB keys: Green – Red
- 20 CHF per USB key – To be returned at the end of the semester

# Twitter Experiment

- ~50 volunteers for an experiment (~30 days)
- HTC phones with an ad-hoc Twitter application running on them
- Required:
  - create a Twitter account
  - register on our web page
  - choose the people you want to follow
  - start generating your updates - tweets
- The ones who create most messages in the course of experiment will be awarded phones (the referee is our database 😊)

