Cloud computing and distributed systems

Guidance

Zeynep Yücel

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About the teacher

- Professor: Zeynep Yucel
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- e-mail: zeynep.yucel@unive.it
- Office hours: Meetings are arranged upon booking.
- Webpage: yucelzeynep.github.io

Calendar

- Duration: 48 academic hours (i.e. 24 frontal lessons)
- From 2025-02-11 Tue to 2025-04-30 Wed, twice a week at following days and hours:
  - Tue 14:00∼15:30 (2 hrs)
  - Wed 15:45∼17:15 (2 hrs)
- Room: Zeta building Aula A
- + Practice classes, Date and room TBA

Moodle page

- https://moodle.unive.it/
- The Moodle page is your primary reference to obtain information about the course, teaching materials, etc.
- On Moodle page or directly by email, you can ask questions about the course content and receive support from the teacher.

Evaluation

- The students are offered two options
  - Two midterms:
    - If the students wish, the grading may be based on two midterms.
    - First midterm will cover the former half of the subjects and will be around the middle of the semester.
    - Second midterm will cover the latter half of the subjects and will be on the designated date for the final exam.
    - Both midterms will be in the form of a written test comprising open-ended and/or multiple choice questions.
    - The students can pass the course, if they pass both midterms.
    - The overall grade of the students will be the average of the two midterms.
  - A single final:
    - The final exam will cover all subjects and will be on the designated date for the final exam.
- Oral examination for clarification.
- Exam dates will be announced at a later time.

Course pre-requisites

- Suggested requirements/skills:
  - Basic coding
  - Basic understanding of computer networks
  - Being interested and curious
- No formal pre-requisites for the exam

What is the course structured?

- This course provides an overview of the technologies involved in the modern distributed systems.
- We will explore design principles, challenges, and potential solutions, and open questions from a theoretical perspective.
- Practical side:
  - Three lectures in the lab
  - Application of some basic concepts
  - One question in the second midterm or final exam

Reference materials

- Slides and materials on moodle page
- Textbook: G. Coulouris, J. Dollimore and T. Kindberg, "Distributed Systems: concepts and design", 5th edition, Addison Wesley Masson, 2012.
- Other reference book: M.van Steen, A.S.Tanenbaum, DistributedSystems: Principles and Paradigms, 4rd edition, 2023