



Network Security

Lecture 0

Course introduction

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People, Course book

- Lectures (course responsible)
 - Kristina.Kunert@hh.se, E 314
 - <http://www.hh.se/staff/krku/>
- Exercises, project
 - Yan.Wang@hh.se, E 323
 - <http://www.hh.se/staff/yanwan/>
- Course book
 - William Stallings, *Network Security Essentials: Applications and Standards (Third Edition)*, Pearson Education, 2007, ISBN: 0-13-238033-1

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Lectures

1. Introduction, Symmetric ciphers
2. Public-key encryption, hash functions
3. Network security applications: Authentication, E-mail security
4. Network security applications: IPsec, Web security
5. System security: Intruders, Malicious software, Firewalls

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Exercises

- 3 groups with max. 20 students each
- 1 exercise on introduction & cryptography
- 4 laboratory exercises
 - Yan Wang
 - 1 extra occasion (if you didn't finish in time)
- 1 laboratory (Cisco) exercise on firewalls
 - Second year student

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Project, Report

- Study and present optional security topic
- 3-student groups
- Report to study and present theory around a topic
- The written reports are made available to all students and have to be studied for the exam
- Report
 - Length: 6 (without pictures) - 10 pages (with pictures)
 - Times 12 points, single row spacing, margins max 3 cm
 - Explain pedagogically and use references the right way
 - Use your time with supervisor Yan Wang (30 min/group)

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Seminar

- Presentation of your project report
- Approximately 10-15 min per group
 - Everyone has to talk!
- "Mini-lecture"
 - Addition to my lectures
 - Will be part of exam material
- Important
 - Explain pedagogically
 - Prepare well and rehearse in order to keep the time and speak freely

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