Exam Network Security

- Friday, November 09, 2012, 13:45-17:15
  - location will be announced via Blackboard and via http://wwwhome.cs.utwente.nl/~pras/netsec/
  - allowed to do written exam only if you register for the exam before 26th of October 2012 via Osiris:
    - https://osiris.utwente.nl/student/StartPagina.do

    (need to have a University of Twente student ID; otherwise either contact UT student administration (BOZ-CS) or send email to g.karagiannis@utwente.nl)

Exam Network Security

- Open book:
  - Take book with you
  - Take slides with you

  (Including the guest lecture slides presented by Roelof Klein (Alliander))
  - Take papers with you
- No electronic devices are allowed:
  - No mobile phone
  - No IPad, PDA
  - No calculator
  - No laptop
  - ...

Study material

- Book of Stallings (***Fourth*** edition)
  Except:
  - Part One: Cryptography
  - Chapter 4: Key distribution and User Authentication
  - Chapter 7 + Appendix Chapter 7
  - Appendix Chapter 9
  - Appendices A & B
  - Online Chapters and Appendixes
- Text related to WLAN, Radius and Diameter:
  - wlan_pers_comm_05.pdf
  - mobicom_borisov.pdf
  - radius_diameter.txt
- All slides
- Material presented at (video) lectures

Lecture	Part	TOPIC	Presented by	Book Stallings
1		Introduction Cryptography Overview	Aiko Pras Pieter-Tjerk de Boer	Chapter 1 Chapter 2+3
2		Datalink Layer (WLAN)	Georgios Karagiannis	Papers & chapter6
3		Network Layer (IPsec)	Aiko Pras	Chapter 8
4		Transport Layer (SSL/TLS, SSH) AAA (Radius, Diameter)	Aiko Pras Georgios Karagiannis	Chapter 5 Papers
5		Web security	Ramin Sadre	Additional material
6		Attack techniques (Scans, DoS)	Ramin Sadre	Chapter 9 & 10
7		Defense techniques (NATs, Firewalls, IDS)	Anna Sperotto	Chapter 9, 10 & 11
8		Guest Lecture Exam info	Roelof Klein (Alliander) Georgios Karagiannis	

legend: *security mechanisms in data communication protocols*

security risks and countermeasures

Exam

- Exam will have 8 to10 questions
- Example exam questions: see
  - Blackboard => Course Information =>Assessment

Grading - “non-Kerckhoffs” students

- E = Grade exam
- H = Grade homework exercises
- W = Grade Web hacking (security) exercise

- Final grade:
  0,8 * (0,8 * E + 0,2 * H) + 0,2 * W

- *note: E+H = 4 EC, W = 1EC*

Grading - Kerckhoffs students

- E = Grade exam
- H = Grade homework exercises
- A = Grade honeypot assignment
- Final grade:
  2/3 * (0,8 * E + 0,2 * H) + 1/3 * A
- Date grade: February 2013
  - Intermediate grade of exam will be made public
  - Therefore you can prepare, if necessary, for retry
- *note: E+H = 4 EC, A = 2EC*

Deadline & info web hacking exercise

- Mandatory only for non-Kerckhoffs students
- Counts for 1/5 (1 EC) of the final grade for non-Kerckhoffs students
- Deadline “Web security” assignment: November 12, 2012

Deadline & Honeypot exercise

- Mandatory only for Kerckhoffs students
- Counts for 1/3 (2 EC) of the final grade for Kerckhoffs students
- Deadline “Honeypot exercise” assignment: end of Quarter 2 (January 2013)