network security: exam Q&A

Today's schedule

- Introduction
- Course overview
- Exam details and tips
- Course evaluation!
- Test exam
- Q&A
- Lab days recap with the TAs

Course Overview

- Lecture 1: Intro (**Manolis**, **Carsten**) 30.01
- Lecture 2: **Crypto** essentials (**Carsten**) 06.02
- Lecture 3: **Authentication** (**Manolis**), lab bootcamp (TAs) 13.02
- Lecture 4: **TLS** (**Manolis**) 20.02
- Lecture 5: **Threat detection** (**Manolis**) 27.02
- Lecture 6: Hacking Lab day (**TAs**) – blue team 05.03
- Lecture 7: **IoT security** (**Manolis**) 12.03
- Lecture 8: **WIFI security** (**Manolis**) 19.03
- Lecture 9: **Private communication** (**Carsten**) 02.04
- Lecture 10: **When everything fails** (**Manolis**) 09.04
- Lecture 11: Hacking Lab day (**TAs**) – red team 16.04
- Lecture 12: Guest lecture (OT security, **Ludwig**) 23.04
- Lecture 13: **Exam preps** (**Carsten, Manolis**) 30.04

Exam details

- Date and Time: **May 22, 2024**
- Place: DTU Campus
- Format: Digital Exam (DE)
- Language: English

Exam format

- Exam format: **Digital Multiple Choice Exam from DTU**
  - The exam will be hosted on the Digital Exam (DE) system
  - https://exam.dtu.dk/
  - PIN: TBA

- Aids: **All aids allowed (no Internet Access)**
  - It is **OK** to use written material (slides, book, pdfs)
  - It is **OK** to use man pages
  - It is **OK** to try commands
  - It is **NOT OK** to communicate with others during the exam
  - It is **NOT OK** to use chatgpt or similar technologies
  - You must follow the **honour code**

Exam duration

- The exam start time is **to-be-announced**

- The normal exam duration is **4 hours**
  - Some of you may apply for extra time (typically **+1 hour**)

- **Do not be late**!

- Timing and extra time is handled automatically by DE

Grading

- There will be 60 questions that weight equally
  - 4 answers (1 correct, 3 incorrect answers)
  - 4 minutes per question
- **Scoring**
  - There is always only one correct answer
  - Students are only able to select one answer per question
  - Every correct answer corresponds to 1 point
  - Every incorrect answer corresponds to 0 points (incorrect answers do not result in subtraction of points)
  - For instance: one who knows 27 questions and answers the other 33 randomly gets on average 27+(33/4)=35.25 points, and passes the course with a 2
- DE has a system that automatically detects erroneous questions
- Grades will be announced within 4 working weeks from the day of the exam

Grade	Points
2	35 - 39
4	40 - 44
7	45 - 49
10	50 - 54
12	55 - 60

How/what to study?

- All lecture slides uploaded on DTU Learn

- Reading material provided on DTU Learn
  - Papers
  - Other reading material on DTU Learn
  - If something says optional, it's… optional (but will help you go deeper into the topic)

- Weekly homework assignments and labs
  - Check the solutions
  - Tools used

- **Guest lecture on OT Security (and its exercises)** is also **part of the exam**

Homework Assignments and Labs

- **Part of the exam!**
- The exam questions may assess your understanding of the assignments and labs and the respective command line tools
- The exam questions may assess your ability to use the command line tools of the assignments and labs
- You won't be assessed on how well you memorize the syntax of various command line tools

Types of questions in the exam

- **Theoretical questions**
  - Demonstrate that you **understand concepts**
- **Critical thinking questions**
  - Demonstrate that you **understand advantages/disadvantages** and you can apply solutions to **real-world problems**
- **Practical problems**
  - Demonstrate that you know how to **use various command line tools**
    - Solve this problem using this tool
    - What does this command do?

Tips for the exam

- **Read carefully** the question and the choices!
  - You might be asked which answer is false or incorrect
  - You might be asked what is most secure
- You look for the answer that is **most correct**
  - E.g. "All of the other answers"

- **Don't forget to do the homework assignments and labs**
  - The two full-day labs are part of the exam!
  - Don't just read the solutions
  - Figure out what the solutions do and why!

Any questions about the exam?

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Test exam

- Starts now
  - https://exam.dtu.dk/
  - Pin code:
- Exam has 8 questions taken from last year's exam set
- The solutions to the questions will be released later this week
- The **test exam does not affect the final grade** in any way