Preparing For and Writing the Exam

Agenda

- How to solve and answer in-depth examination tasks
  - A structured approach
  - Formulating answers

Why This Lecture?

- Examination goals differ
- We want students to reach the goals
- We want students to get better marks

An Example

**Question X**

Computer networks can be both wired and wireless. Compare wired and wireless networks from a security point of view. Describe and motivate significant differences. Give an example of a relevant attack form possible both in wired and wireless networks and highlight differences both from the attacker’s and the defender’s point of view.
A Structured Approach

1. What is the context?
2. What are the deliverables?
3. What do I know about this?
4. How do my pieces of knowledge relate to each other?
5. Conclude and answer

The Context

• The context is network security from attacker’s and defender’s point of view

Only answer within this context!

The Deliverables

Question X
Computer networks can be both wired and wireless. Compare wired and wireless networks from a security point of view. Describe and motivate significant differences. Give an example of a relevant attack form possible both in wired and wireless networks and highlight differences both from the attacker’s and the defender’s point of view.

The Deliverables

• Compare
• Describe and motivate
• Give an example
• Highlight differences
What Do I Know About This?

• Security?
• Networks?
• Wireless?
• Attacks?

What Do I Know About This?

CIA model

• Security?
• Networks?
• Wireless?
• Attacks?

What Do I Know About This?

• Security?
• Networks?
• Wireless?
• Attacks?

CIA model

Buffer overflow

Man-in-the-middle
What Do I Know About This?

- CIA model
- War driving
- Ad-hoc networks
- Security?
- Networks?
- Wireless?
- Attacks?
- Man-in-the-middle
- Buffer overflow

What Do I Know About This?

- CIA model
- War driving
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- Eavesdropping

Find connections!

Remember context!

Relate Pieces of Knowledge

- CIA model
- War driving
- Ad-hoc networks
- Security?
- Networks?
- Wireless?
- Attacks?
- Man-in-the-middle
- Eavesdropping
- Find connections!
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<thead>
<tr>
<th>Conclude and Answer</th>
<th>Detailed Info on the Web</th>
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<tr>
<td>• Write structured and clear answers</td>
<td>• Download and print</td>
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<tr>
<td>• Avoid strong statements</td>
<td>&quot;Approaching and Answering In-Depth Exam Questions”</td>
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<td>• Justify your statements</td>
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<td>• Give complete answers</td>
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<td>• Make use of examples</td>
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