



Welcome to

6. Malware, Intrusion, Vulnerabilities

KEA Kompetence Computer Systems Security 2019

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Slides are available as PDF, [kramse@Github](https://github.com/kramse)
6-malware-intrusion-vulnerabilities.tex in the repo [security-courses](https://github.com/kramse/security-courses)

Plan for today



Subjects

- Trojan horses, Rootkits, computer viruses
- Computer worms, from Morris Worm to today
- Bots and botnets
- Ransomware
- Phishing and spear phishing
- Sandboxing, Java and browsers
- Penetration testing
- Common Vulnerabilities and Exposure CVE
- Common Weaknesses and Exposures CWE

Exercises

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Reading Summary



Bishop chapter 23: Malware

Bishop chapter 24: Vulnerability Analysis

Smashing The Stack For Fun And Profit, Bypassing non-executable-stack during exploitation using return-to-libc, Basic Integer Overflows, Return-Oriented Programming

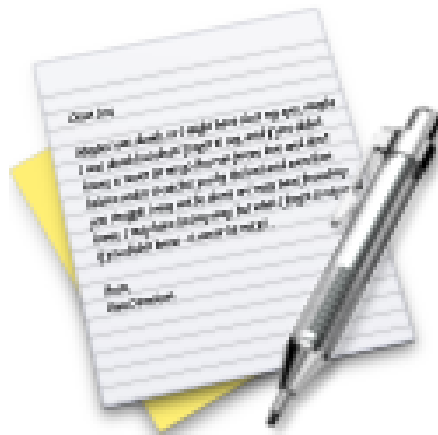
Trojan horses, Rootkits, computer viruses



Computer worms, from Morris Worm to today



Exercise



Now lets do the exercise

Perform privilege escalation using files

which is number **11** in the exercise PDF.

Bots and botnets



Ransomware



Phishing and spear phishing



Sandboxing, Java and browsers



Penetration testing



Common Vulnerabilities and Exposure CVE



Common Weaknesses and Exposures CWE



Exercise

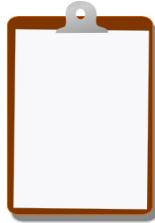


Now lets do the exercise

Anti-virus and "endpoint security"

which is number **12** in the exercise PDF.

For Next Time



Think about the subjects from this time, write down questions

Check the plan for chapters to read in the books

Most days have less than 100 pages, but some days may have more!

Visit web sites and download papers if needed

Retry the exercises to get more confident using the tools