New York Institute of Technology- Amman Campus

INCS 745: Intrusion Detection and Hacker Exploits

Survey presentation

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The first project is a short survey paper about a recent systems vulnerabilities, hacker exploits and attack scenarios. The main **outcome of the project is a conference style paper**. **This is an individual assignment.** Taking in consideration what can be accomplished in a short semester, the work should reflect serious effort and strong innovation.

Requirements for survey paper (due by 26/10/2011)

You can write a paper that surveys systems vulnerabilities, hacker exploits and attack scenarios regarding the areas shown below. The outcome should be a comprehensive paper that summarizes the significant work in the field. The paper should not exceed 10 pages and not less than 5 pages (single spaced lines, font size <=11). You should reference at least 5 journal or refereed conference papers. Other reputable web sources are acceptable pending proper citation. Your grade will be judged on the completeness of the survey, the quality of the trend analysis, and the quality of presentation.

Requirements for presentation (due by 26/10/2011)

You're required delivering a 25 minutes presentation about the paper. The presentation will be according to random ordering chosen, in advance, by the instructor.

Selected topics:

Subject: Vulnerabilities, hacker exploits and attacks on	Student
Moodle eLearning software	
Twitter	
Facebook	
Oracle	
MS SharePoint	
MS Live mail (Hotmail), Gmail, MS exchange Server or Yahoo	
Google	
ATM machines networks	
Online Payment systems and escort services	
Certificate Authorities	

Recent Complex Viruses/Worms/Malwares/FastFluxNetworks (Such as StuxNet)	
Cracking unbreakable codes (Zodiac)	
Software registration numbers and password crackers	

Survey Paper Outline

1. Abstract
2. Introduction (10 points)
   - Discuss the background (required knowledge, math, networking…)
   - Summarize the surveyed research area and explain why the surveyed area has been studied.
   - Summarize the classification scheme you used to do the survey.
   - Summarize the surveyed techniques with the above classification scheme.
3. Survey details
   - (30 points) Present the surveyed techniques using the classification scheme in **details**.
   - (10 points) Identify the **trends** in the surveyed area. Give evidences for your decision. (compare results for different techniques)
4. Conclusions
   - Summarize the conclusions of your survey.
5. References
   - (15 points) List all the citations referenced in your paper. You will lose 5 points for each dangling reference (i.e., the reference not cited in the main text or not relevant).

The final survey paper is due by **26th Oct**. A 25 minute presentation worth 35 points will take place on **27/10/2011.**

Academic Dishonesty: Academic dishonesty, use of consultants at exam time, copying exams or plagiarizing homework assignments will result in an F grade on the exam or assignment. If it occurs more than once, the course grade will be F.

Warning: iThenticate.com will be used to detect plagiarism in this class