
CS 290

Host-based Security and Malware

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Administration

- Where do you get your information?
 - class web page
<http://www.cs.ucsb.edu/~chris/teaching/cs290/index.html>
 - mailing list (public, for all students)
cs290g@lists.cs.ucsb.edu
I will subscribe you if you are registered for this class
if you are not officially registered, please send mail to me
 - mail to instructor (for private matters)
chris@cs.ucsb.edu

Administration

- What material will we be using?
 - unfortunately, there is no good book on systems security
 - you should use the slides that I will post on the web site
 - related research papers and online material (links will be posted)

Administration

- What are the requirements to get a grade?
 - Two exams (midterm and final) – 50% of grade
 - Eight challenges (small projects) – 50% of grade
roughly one per week
done with auto-grading (can retry multiple times)

Topics

- What are we covering in this class?
 - idea is that this class is complementary to Giovanni's class but some overlap can probably not be avoided
- Overview of areas
 - operating system security (both Unix and Windows)
 - forensics
 - reverse engineering
 - malware and botnets
 - social network security
 - (advanced) memory exploits
 - (practical) cryptanalysis

Challenges

- You will receive mail with account information!
- You can log into our environment or do most of the work on your own machine
- In the end, use our submit program to turn in solution
- Then, you get feedback mail and see update on a web page
 - uses auto grading – make good use of this