CIS 76 Ethical Hacking Exercise

Final Project
Fall 2017

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You will create your own educational step-by-step lab using your VLab pod that demonstrates a complete hacking attack scenario. This lab will be published in a Google Docs folder available to all your classmates.   In addition to creating a new lab document you will also test one or more of your classmates projects.

Warning and Permission

Unauthorized hacking can result in prison terms, large fines, lawsuits and being dropped from this course!

For this project, you have authorization to hack any of the VMs in your VLab pod.

Deliverables
1. A new lab document that you create:
    a. Lab document specifications here: link
    b. Upload your lab document with Appendix A to the shared project folder: link
2. One or more test reports:
    a. Project testing template: link
    b. Project testing signup spreadsheet: link

Recommended Timeline
1. [3-4 week before due date] Start researching potential hacking project ideas 3-4 weeks in advance. Cybersecurity news articles and blogs are excellent starting points for your scenario. Use Google to research vulnerabilities, exploits and preventative measures to implement in your VLab pod. If you need additional VMs let the instructor know.

2. [2 weeks before due date] Identify and configure attacker and victim systems in your pod and implement your scenario. Develop step-by-step instructions on how to set up the VMs and carry out the attack. Verify that any preventative measures work.

3. [1 week before due date] Use the forum to announce your lab is ready for testing. Sign up to test another student's lab using the link above.

4. [On the due Date] Do an [optional] presentation/demo to the class and submit by email the final version of your lab.

Submit your work

Email the final version of your lab, with all three Appendixes to:
risimms@cabrillo.edu

Remember **late work is not accepted.** If you run out of time submit what you have completed for partial credit.

Grading Rubric (60 points)

5 points - Professional quality document (readability, formatting, spelling, accuracy)
5 points - Scenario and diagram (provides necessary context to understand the lab)
5 points - Vulnerabilities & exploits (accurate summaries and citations)
20 points - Step-by-step instructions (20 steps minimum, 1 point per step)
5 points - Requirements, admonition, prevention (are included).
5 points - Complete appendixes.
10 points - Testing another student's lab and providing them with helpful written feedback.
5 points - [Optional] Presentation and demo to class.

Extra credit (up 30 points)
5 points each for testing additional student labs. You must use the testing spreadsheet above so that all projects get tested equally.