

## Capability Lab

### Survey Questionnaire

You are asked to complete this questionnaire because you have just completed the capability lab. The purpose of this survey is to help us understand how effectively this lab has enhanced your learning in computer security. The survey is anonymous. Your responses are not related in any way to the grade you will receive on the lab. Your participation in this survey is greatly appreciated.

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**Learning objective of this lab:** Upon completion of this lab, students should be able to apply the capability concept to enhance system security.

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1. What is your level of familiarity with the C programming language?  
(A) No Experience (B) Beginner (C) Intermediate (D) Advanced
2. What is your level of familiarity with Unix?  
(A) No Experience (B) Know some commands (C) Have application-level development experience  
(D) Have kernel-level development experience
3. My preparation and ability were sufficient for me to successfully understand the lab.  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
4. The lab instructions were clear.  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
5. The following supporting materials were useful in my completion of the lab (please select A, B, C, D, E for each of the following materials):  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
  - (1) "How to add a new system call in Minix": (A) (B) (C) (D) (E)
  - (2) "How is a system call invoked in Minix": (A) (B) (C) (D) (E)
  - (3) "How to manipulate the I-node data structure": (A) (B) (C) (D) (E)
  - (4) "Three process tables in Minix": (A) (B) (C) (D) (E)
6. The level of difficulty of the lab was:  
(A) Very easy (B) Somewhat Easy (C) Average (D) Somewhat Difficult (E) Very difficult
7. What was your level of interest in the lab?  
(A) Very low (B) Low (C) Average (D) High (E) Very high
8. Approximately, how many hours did you spend on this lab?  
(A)  $\leq 20$  hours (B) 21-30 hours (C) 31-40 hours (D) 41-50 hours (E) 51-60 hours  
(F) 61-70 hours (G) 71-80 hours (H) 81-90 hours (I) 91-100 hours (J)  $> 100$  hours
9. The time you spent on this lab was worthwhile.  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
10. What is the most time-consuming part of this lab?

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11. The lab was a valuable part of this course.  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
12. As a result of the lab, I am more interested in computer security.  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
13. Overall, I have attained the learning objective of the lab: I can successfully apply the capability concept to enhance system security.  
(A) Strongly disagree (B) Disagree (C) Neutral (D) Agree (E) Strongly agree
14. Please rate how much you have learned about the following security concepts from this lab:  
(Please use a 5-grade scale, with 1 meaning the least and 5 meaning the most. Note that not all the following concepts are covered in this lab)
  - (1) Capability:
  - (2) Access control:
  - (3) Authentication:
  - (4) Principle of least privilege:
  - (5) Software vulnerabilities:
  - (6) Secure programming:
  - (7) Unix security:
  - (8) Operating system security:
  - (9) Network security:
15. Which aspects of the lab were most valuable to your learning?
16. What problems did you encounter in completing the lab?
17. What changes could be made to the lab to enhance your learning?
18. What was the most important thing you learned from the lab experience?