

CMPSCI 177 - Computer Security
Fall 2009
Fifth Homework - Security Policies

Due: 4 NOV 09 2:00pm

Answer questions 4 and 5 at the end of Chapter 4 in Bishop's text.

Answer questions 2 and 6 at the end of Chapter 5 in Bishop's text.

Answer question 1 at the end of Chapter 6 in Bishop's text.

Which of the Bell & LaPadula rules presented in class makes it clear that the permission matrix represents discretionary access control? Be sure to explain your answer.

In Bishop's text, section 4.5.1, he discusses what should be included in a general University Acceptable Use Policy. I would like you to locate the Use Policy for the UCSB Computer Science Department, read it, and then briefly (but explicitly) discuss whether or not it includes all of the things that Bishop discusses in the text. Also, if it includes things that were not discussed in Bishop, tell why you think these things are or are not important to include.

I would like you to locate the University Acceptable Use Policy for at least two universities (other than UCSB or UC Davis). Indicate what things you feel are missing from these policies that are in the UCSB CS policy and/or vice versa.

This question is intended to make you apply what you have learned about security policies to a novel situation. I would like you to create a security policy for an electronic pharmacy system. Be sure to consider rules for confidentiality, integrity, availability, and privacy.

To answer this question you should think about what are the different roles, such as the pharmacist, the clerk, the customer, etc. You should also think about the different assets, such as the prescriptions, the drugs dispensed, personal information, etc. Searching on the Internet to find an example policy **IS NOT** the way to answer this question.

Please clearly state any assumptions you are making when answering this question, but do not make assumptions that trivialize the question.