

3. In this chapter we discussed access control lists (ACLs) and capabilities (aka C-lists).
 - a. Give two advantages of capabilities over ACLs.
 - b. Give two advantages of ACLs over capabilities.
4. In the text, we argued that it's easy to delegate using capabilities.
 - a. It is also possible to delegate using ACLs. Explain how this would work.
 - b. Suppose Alice delegates to Bill who then delegates to Charlie who, in turn, delegates to Dave. How would this be accomplished using capabilities? How would this be accomplished using ACLs? Which is easier and why?
 - c. Which is better for delegation, ACLs or capabilities? Why?
10. This problem deals with covert channels.
 - a. Describe a covert channel involving the print queue and estimate the realistic capacity of your covert channel.
 - b. Describe a subtle covert channel involving the TCP network protocol.
11. We briefly discussed the following methods of inference control: query set size control; N -respondent, $k\%$ dominance rule; and randomization.
 - a. Explain each of these three methods of inference control.
 - b. Briefly discuss the relative strengths and weaknesses of each of these methods.

Extra Credit 2 points:

20. Design and implement your own visual CAPTCHA. Outline possible attacks on your CAPTCHA. How secure is your CAPTCHA?