

1999 Paper 3 Question 5

Introduction to Security

Define *access control lists* and *capabilities*, and discuss their relative strengths and weaknesses. [5 marks]

Describe how the access control list mechanisms work in Unix. [5 marks]

You have been asked to build a funds transfer system in which a payment is authorised only once it has been approved by both a manager and an accountant at a bank branch. How would you implement this system using Unix security mechanisms as the foundation? [10 marks]