

Overview

- Last Lecture
 - Diagnostics and Ethics
- This Lecture
 - Wrap up

Topics

- Summarise the lectures

Question templates

- Describe how an attacker can launch a Denial of Service (DoS) attack to a target machine using incomplete TCP connection.
 - Answer:
 - TCP three way handshake protocol
 - SYN packet with forged IP source address
 - Waiting time for completing connections
 - Memory space for incomplete connections
 - Out of memory space on the target machine with thousands of incomplete connections.

Question templates (cont.)

- Explain why it is necessary for a hard disk to be partitioned. (4 marks)
- Answer:
 - (2 marks) for installation of different OS, easy for system upgrade
 - (2 marks) to separate different file systems, easy for maintenance of file systems and good for protection among different files systems.

Question templates (cont.)

- List the pros and cons of ...
- Give two benefits of ...
- Given a situation, explain why or why not?
- Given a backup plan, work out how to restore a file system.
- *Get a copy of past exams from the library.*
- *Almost one question per lecture, usually the issues discussed in lectures will be examined.*
- *You need to get >40% to pass the paper!*

General

- Write in the space provided.
- No calculators
- No books, notes, or other material.
- 3 hour exam

Where to go from here?

- COSC402
 - UNIX/Linux network programming API
 - Socket API
 - TCP/IP protocol suite, wireless sensor networks
 - Make robust, high performance Internet applications
 - <http://www.cs.otago.ac.nz/cosc402>
- COSC440
 - Linux kernel programming
 - Understand some source code of Unix version 6
 - Research articles on OS, 100% internal assessment.
 - <http://www.cs.otago.ac.nz/cosc440>