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# SE 4C03 Winter 2006

# Lab Exercise 5

Instructor: William M. Farmer

Revised: 27 March 2006

Assigned:           27 March 2006
Lab report due:    28 March 2006

Do this lab exercise with your partner.

The `tcpd` server known as the *TCP Wrapper* is a mechanism to control and monitor access to network services handled by the `inetd` server. When a request is received for a network service handled by `inetd` with `tcpd` enabled, the request is passed to the `tcpd` server. The `tcpd` server then processes the request, and if it is accepted, the `tcpd` server starts up the server for the network service and gives the request to it.

For Lab Exercise 5 implement the network security policy given below on your Little Internet host by using the following access files for the `tcpd` server:

- `/etc/hosts.allow`

- `/etc/hosts.deny`

See the man pages for `tcpd` and `hosts.allow`. Assume that the `tcpd` server is enabled for all network services handled by `inetd`, including those mentioned in the network security policy. Make sure that the owner and group of the two files above are `root`, everyone can read the files, and only `root` can write the files.

For your team's lab report, hand in these two sheets. You must also turn in a paper copy of each team member's log book no later than the beginning of the lecture on March 30, 2006. If your log book is missing or incomplete, 4 points will be deducted from your mark. *You and your partner must hand the lab report in together before the end of the lab session. If you do not attend the lab session or leave the lab before handing in the lab report, you will receive a mark of 0 for the lab exercise.*

**Network security policy**

1. The only network services provided by your host are `ftp`, `finger`, `ssh`, and `telnet`. _____/4 pts.

2. `ftp` requests are accepted only from IP addresses on the hosts in the Little Internet. _____/4 pts.

3. `finger` requests are accepted only from the IP addresses on your host. _____/4 pts.

4. All `ssh` requests are accepted. _____/4 pts.

5. `telnet` requests are accepted only from the IP addresses of the interfaces that are directly connected to your host. _____/4 pts.