SE 4C03 Winter 2001

Overview of Exercises

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Exercise 1

Install Redhat Linux on the assigned computer and create some specified user accounts.

Exercise 2

Configure networking on the computer.

1. Turn on IP forwarding.
2. Set the hostname of the computer using `hostname`.
3. Add entries in the `/etc/hosts` file for each IP address of the Little Internet.
4. Set the IP address and subnet mask for both Ethernet network interfaces using `ifconcig`.
5. Configure the routing table for the computer using `route`.

Exercise 3

Examine the `/etc/passwd` and `/etc/services` files. Enforce a given network security policy on the computer by modifying the `/etc/inetd.conf`, `/etc/hosts.allow`, `/etc/hosts.deny`, and `/etc/ftpusers` files.

Exercise 4

Analyze and monitor the Little Internet using `netstat`, `ping`, `telnet`, `traceroute`, `tcpdump`, and the accounting facility of `ipfw`.

Exercise 5

Install and configure SSH on the computer.

Exercise 6

Enforce a given network security policy by using the packet filtering facility of `ipfw`.