Name _____                _____/20 pts.

Name _____

Name _____

## SE 4C03 Winter 2003

## Lab Exercise 1

Instructor: William M. Farmer
Revised: 22 January 2003

Assigned:            24-JAN-2003
Lab report due:    31-JAN-2003

Working together, you and your assigned team members will configure, secure, and administer a host on the Little Internet running Redhat Linux. This exercise is the first step.

1. The password for the root account will be se4c03.$n$ where $n$ is your host number. Change this password to a good password that you will not forget. Do not use the root account except for administrative tasks that require root privileges.

2. Create password-protected user accounts for you and your partner(s) using linuxconf. Also create password-protected user accounts named intruder and instructor. The intruder will be used by nonteam members to log into your host, while the instructor will be used for marking by the instructor and the TAs. Set the default shell for both accounts to tcsh. The password of intruder should be letmein, but choose a good password for the instructor account. Write the password of the account instructor here:

   _____

                                                        _____/5 pts.

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3. From the Specification of the Little Internet, draw a picture of the 36 computers, 6 hubs, 36 host-to-hub cables, and 18 host-to-host cables that constitute the Little Internet. Show what IP addresses are assigned to the network interfaces.

_____/5 pts.

4. Turn on IP forwarding ("Enable routing") on your host using `linuxconf`. _____/2 pts.

5. Set the hostname of your host to `host$n$.mcmaster.ca` using `linuxconf` where $n$ is your host number. _____/2 pts.

6. Set the IP address and subnet mask for both Ethernet network interfaces using `ifconfig`. Do not use `linuxconf` to do this. Put a copy of the `ifconfig` commands you used in the `/etc/rc.local` file so that they are executed when your host is rebooted. Make sure that the `/etc/rc.local` file is readable by `instructor`. When you are done, use `ifconfig` to verify that your workstation has three active, correctly configured network interfaces, one loopback and two Ethernet.

_____/6 pts.

For your team's lab report, hand in this sheet, your picture of the Little Internet, and a copy of each team member's log book.