

Name_____ /20 pts.

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Name_____

SE 4C03 Winter 2002

Lab Exercise 1

Instructor: William M. Farmer

Revised: 11 February 2002

Assigned: 08-FEB-2002

Lab report due: 01-MAR-2002

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. Change the password for the root account 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 a password-protected user account named `instructor`. Set the default shell for the account to be `tcsh`. This account will be used for marking by the instructor and the TAs. Write the password of the account here:

_____/5 pts.

3. From the Specification of the Little Internet, draw a picture of the 36 computers, 10 hubs, 36 host-to-hub cables, 18 host-to-host cables, and 4 hub-to-hub 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 `hostn.mcmaster.ca` using `linuxconf`. _____/2 pts.
6. Set the IP address and subnet mask for both Ethernet network interfaces using `ifconfig`. Put a copy of the your `ifconfig` commands in the `/etc/rc.local` file so that they are executed when your host is rebooted. 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.