Name	/20 pts.
Name	-

SE 4C03 Winter 2007 Lab Exercise 1

Instructor: William M. Farmer Revised: 26 January 2007

Assigned: 26 January 2007 Lab report due: 26 January 2007

Working together, you and your assigned team member will configure, secure, and administer a VMware host on the virtual Little Internet. This exercise is the first step.

- 1. Start up the VMware Server Console on one of the computers in ITB 235. Using the account and machine name assigned to your group, connect to your assigned VMware host. The password will be given to you in the lab.
- 2. Install the Linux operating system on your host. Set the gateway (for now to be any IP address that is directly reachable from your host. Do not specify a DNS server.
- 3. Create two Unix groups named team and guests. Create password-protected user accounts for you and your partner with the group team. Use your MAC IDs for the names of these accounts. Also create a password-protected user account named instruct with the group team. This account will be used by the instructor and the TA for marking purposes. Finally, create a password-protected user account named intruder in the group guests. The intruder will be used by nonteam members to log into your host. Set the default shell for instruct and intruder to tcsh. The password of intruder should be letmein, but choose a good password for the instruct account. Print the password of the account instruct here:

	-						/ -	P co.
4.	From	the Spec	ification of	the Little	Internet,	draw a p	oicture of	the
	24 ho	sts and 17	physical n	etworks th	at constit	ute the L	ittle Inter	met.
	Show	what IP a	ddresses an	nd subnet n	nasks are a	assigned t	o the nety	vork
	interf	aces.				J		
							/6	pts.

/4 pts

ac	the loopback interface. Use ifconfig to verify that your host has three stive network interfaces with the correct IP addresses and subnet asks. Note any mistakes in the space below.
	/2 pts.
no no m	se route to look at your host's routing table. How many direct, onhost routes does the table have? How many indirect, ondefault, nonhost routes does the table have? How many host any default routes does the table have? How many host outes does the table have? /4 pts.
	se ping to find the IP addresses of all Little Internet interfaces that the directly reachable from your host:

5. Your host should have three network interfaces: eth0, eth1, and lo,

For your team's lab report, hand in this sheet, your picture of the Little Internet, and a paper copy of each team member's log book (if it is more convenient, you may hand this in at the beginning of the next lecture). 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.

 $_{\prime}/4$ pts.