Name________________________________ _____/20 pts.

SE 4C03 Winter 2002

Lab Exercise 4

Instructor: William M. Farmer

Revised: 20 March February 2002

Assigned:	05 March 2002
Lab report due:	01 April 2002

Do this lab exercise by yourself.

Configure your account to use public key authentication with the Secure Shell network service.

1. Suppose your account name is a. Ask one of the other groups in the class to give you an account named a on their host. (Do not use the `intruder` account for this purpose.) Let x denote your host and y denote the other host. _____/ 2 pts.

2. Use the command

   ```
   ssh-keygen -d
   ```

   to create a DSA public key pair for your account on x (and an `.ssh` directory). You will have to enter a passphrase which will be used to encrypt/decrypt your private key. Name the private and public key files `id_dsa` and `id_dsa_x.pub`, respectively. Do the same on host y.
   _____/ 3 pts.

3. On both x and y, create a file named `authorized_key2` in the `.ssh` directory. Make these two files readable and writeable by the owner only, and then put in both of them the contents of `id_dsa_x.pub` and `id_dsa_y.pub`.
   _____/ 3 pts.

4. Test the set up by executing

   `ssh -v` a_x

   on host x where a_x is one of the two IP addresses of x. The `-v` option for "verbose" will show each step of the process of creating an Secure Shell communication channel from your computer to itself. After the communication channel is established, try starting an X Windows client like `xterm` or `netscape`. _____/ 4 pts.

5. Test the set up by executing

   `ssh -v` a_x

   on host y. After the communication channel is established, try starting an X Windows client like `xterm` or `netscape`. ______/ 4 pts.

6. Test the set up by executing

   `ssh -v` a_y

   on host x. After the communication channel is established, try starting an X Windows client like `xterm` or `netscape`. ______/ 4 pts.

7. **Demonstrate your set up of Secure Shell to one of the TAs. After you are done with the demonstration, give the TA your lab report consisting of the two sheets of this exercise and a copy of your log book.**