University of California at Berkeley

EECS Instructional and Electronics Support
Department of Electrical Engineering and Computer Sciences

Using SSH and EXCEED to Display UNIX windows on Microsoft Windows Computers

SSH_EXCEED.doc
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Ssh (Secure Shell) is a program to log into another computer over a network, to execute commands in a remote machine, and to move files from one machine to another. It provides strong authentication and secure communications over insecure channels. It is intended as a replacement for rlogin, rsh, rcp and ftp.

The existing SSH Secure Shell products have been re-branded with new product names starting from the new release version 4.0. The new product names for SSH Secure Shell for Workstations, Servers, and Windows Servers are now:

- SSH Tectia™ Client (previously SSH Secure Shell for Workstations)
- SSH Tectia™ Server (Unix) (previously SSH Secure Shell for Servers and Windows Servers)

Non-commercial versions of SSH Tectia solution are not available.
Commercial versions of SSH Tectia are available from
http://www.ssh.com/support/downloads/

Free versions of SSH2 for UNIX and MS Windows are available from
http://www.ssh.com/support/downloads/
to all students, faculty, and staff at universities.

EECS Instructional users may also download free versions of SSH for home use from
http://inst.eecs.berkeley.edu/download-ssh.html
and
http://inst.eecs.berkeley.edu/~instcd.

Exceed is an X Window that runs on Windows 95/98/NT/2K/XP.
For more information on X Windows:
http://inst.eecs.berkeley.edu/software.html

Exceed is available to UC Berkeley students via a campus license.
You can download it from
http://software.berkeley.edu/windows/exceed/current/
or find it on the "Connecting at Berkley" CD
http://cab.berkeley.edu/
Documentation is built in and also can be purchased through Hummingbird.

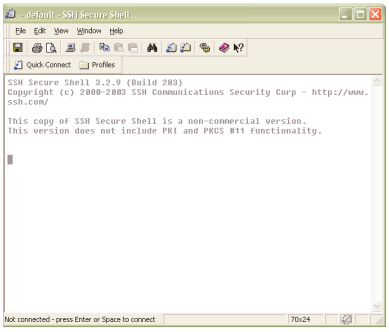
- # To use Exceed:
  - Click the **Star** button
  - Then select **Program → Hummingbird → Exceed → Exceed** **Not** Exceed (XDMCP-Broadcast).

    - An Exceed button will appear on your taskbar; the icon looks like the letter X with a top hat and cane on it. - *The toolbar below should also appear (you can drag it on top or bottom of your screen for a better use/access)*

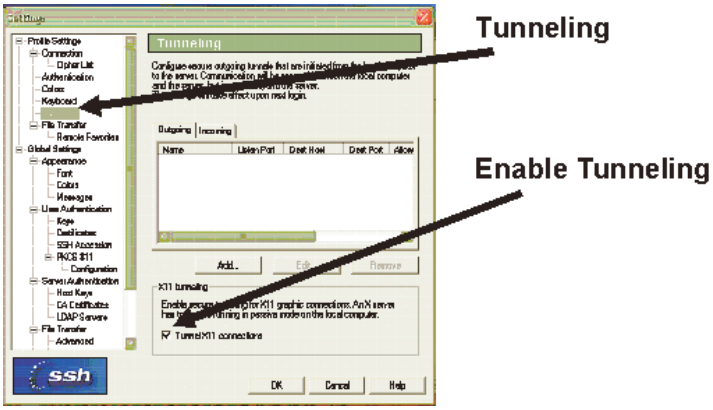
  - To open your files or programs in Exceed, you need to use SSH

- # To use Ssh:
  - Click on the **Start** button
  - Then select **Programs → SSH Secure Shell → SSH Secure Client**

- Press Enter – *the window below should appear*

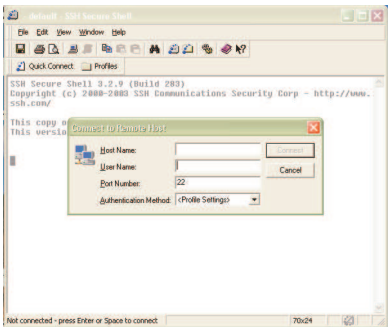


- To use Ssh with X Windows (i.e. Exceed) turn on X11 Tunneling before you connect (Saving the settings when you close SSH will keep them to apply to future sessions.)
  - Click **Edit → Settings...**
  - Click **Tunneling** under **Profile Settings** (left side of screen); click in the box next to **Tunnel X11 Connections**.



  - Press **Enter** or click **OK**.

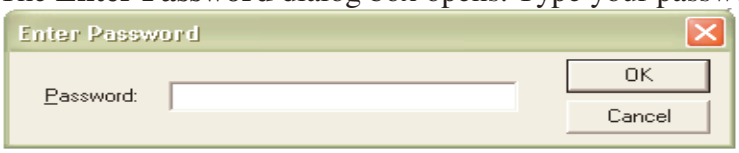
- Click on **Quick Connect** (top left of SSH window) or press the **space-bar** on your keyboard – *the window below should appear*



- In the **Connect to Remote Host** dialog box:
  - Type the **Host Name** *i.e.:*
    cory.eecs.berkeley.edu
    c199.eecs.berkeley.edu
    pulsar.eecs.berkeley.edu
    solar.cs.berkeley.edu
    star.cs.berkeley.edu
  - Type in your **User Name.** *This should be your Unix login*

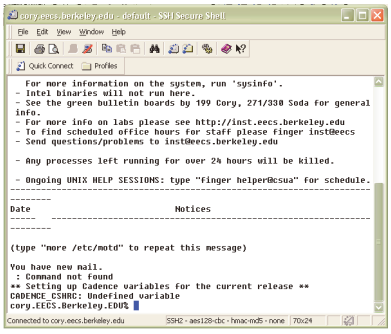
- Press **Enter** or click **Connect**
  - *If this is the first time you've used SSH Secure Shell to connect to this remote host, SSH will show you the host's public key and ask you: "Do you want to save the new host key to the local database?" If you trust this is the right host, click **Yes** to save it.*

- The **Enter Password** dialog box opens. Type your password in the **Password** box



- Press **Enter** or click **OK**

- You are now connected – *the window below should appear*



- You can now use **Exceed.** A good X-Windows program to test with when you first set Exceed up is **xclock**.
  - On your Ssh terminal, enter: **xclock &** and a small X-Windows window containing a clock will open on your PC's screen. (It might open minimized; if you don't see it right away, check your taskbar.) – *see picture below*

xclock