

# SSH Step 1

## Guidelines for SSH in ACS Labs

This guide explains how to use SSH (Secure Shell) in ACS PC and Macintosh labs. SSH is similar to Telnet; it allows you to connect to a Unix server to use Unix commands. SSH has the major advantage of not sending your password over the network in clear text. It encrypts the password for security.

SSH is installed on all ACS computers. A complete listing of ACS computer labs is available at the URL:

<http://acs.ucsd.edu/instructional/>

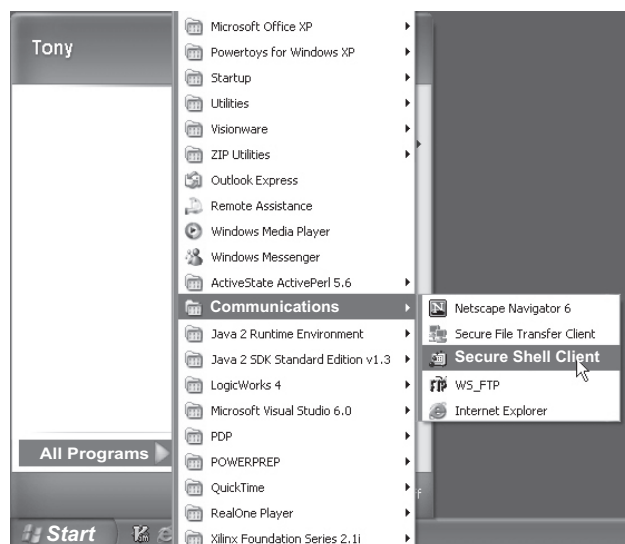
To obtain SSH for your own computer, see:

[http://acs.ucsd.edu/info/ssh\\_clients.php](http://acs.ucsd.edu/info/ssh_clients.php)

### Starting SSH from an ACS Windows XP Computer

Once you've logged on to the Windows XP Computer (refer to the **Windows XP Step1 Guide** for instructions), follow these steps to start SSH:

1. Open the **START** menu by clicking on the Start button, located at the lower left corner of the desktop.
2. Select **All Programs** and then **Communications**, to locate the **Secure Shell Client**.
3. Start the program. A SSH Secure Shell window opens.
4. Select **Quick Connect** from the menu bar. A "Connect to Remote Host" dialog appears.
5. Enter the host name, (example: `sdcc15.ucsd.edu`)
6. Enter your login username.
7. **Authentication Method** is "Password".
8. You may receive an advisory notice regarding "The remote host uses SSH1 protocol", accept the connection.
9. If the notice regarding "You are connecting to host ... for the first time." appears, **accept and save key**.
10. Enter the password for your login username when requested.



### Starting SSH from an ACS Macintosh

#### Macintosh Running OS 9

1. Open the hard drive by double-clicking its icon, located along the upper right edge of the screen.
2. Open the **Communications** folder, then the **MacSSH PPC** folder.
3. Double-click on the **MacSSH PPC** application icon to start SSH.



**Tip:** If you double-click on its icon and nothing appears to happen, SSH may already be started. Continue on to step 4.

4. Once SSH starts, go to the **File** menu and select **Open Connection**. An "Open Connection" dialog appears.
5. Enter the hostname, (example: `ieng9.ucsd.edu`)
6. Select the **Secure Shell v2** checkbox, then click **connect**.
7. If the notice regarding "The key for this host has never been seen before." appears, accept and save the key.
8. Enter your login username and password when requested.

#### Macintosh Running OS X

Once you've logged on to the Macintosh OS X computer, follow these steps to start SSH:

1. Open the hard drive by double-clicking its icon, located along the upper right edge of the screen.
2. Open the **Applications** folder and then the **Utilities** folder.
3. Double-click on the **Terminal** application icon.



4. Type "`ssh <hostname>`" (example: `ssh ieng9.ucsd.edu`) to start a SSH session.
7. If the notice regarding "The authenticity of host can't be established." appears, type: `yes`
8. Enter your login password when requested.

## Using Unix From a Command Line

Once you've logged on, you'll be presented with the day's system announcements. Press the spacebar to advance after reading the current screenful. After a couple of screens, you will see a **system prompt**:

```
% (on sdcc13, sdcc15, sdcc17, and sdcc21)
or
iacs5.ucsd.edu 1: (on iacs5 and other HP systems)
or
ieng9.ucsd.edu% (on ieng9 and other Solaris, SunOS, or
SGI systems)
```

A system prompt appears when a Unix system is ready to accept your commands. Introductory articles are available at the URL:

<http://acs.ucsd.edu/info/>

On-line reference manuals are also available on Unix systems in the form of man pages. These pages describe how to use the various commands and programs in Unix.

To view these manual pages, use the `man` command. Examples:

```
man ls      man man
man logout  man pine
man tcsh    man chfn
```

## Troubleshooting

### Login problems:

If you cannot log in, or you get the message "Login incorrect", check your account status at the URL:

<http://acs.ucsd.edu/account-tools/>

### If the server is not responding:

The host system is probably down or out of service. You can check the system status at the URL:

<http://netmonitor.ucsd.edu/NetSupport/unixnetworklog.html>

or call the ACS Help Line, 858-534-3ACS (or extension 43227 from an on-campus phone).

### If you don't know your password:

You can reset it at the URL:

<http://acs.ucsd.edu/account-tools/gpasswd.php>

You will need to know your 4-digit PAC code to authenticate the request. Your new password will be ready to use in an hour. You may also come to the ACS Accounts Office (see next column) with your student id card and we will assign a new randomly-generated password which will be ready the following day.

### Computing Units and what they mean:

Accounts on ACS systems get a weekly allocation of Computing Units. If you use up all of your Computing Units during the week, your account will be suspended until the next weekly balance refresh on Friday morning.

More information is available at the URL:

<http://acs.ucsd.edu/account-tools/studentrates.php>

## Logging Out

It is **very important** that you type "exit" at the system prompt to end your session.

Closing the SSH program window without typing "exit" will leave you logged on -- which may use up all of your computing units and suspend your account (including e-mail) for the rest of the week. See "Troubleshooting" section below for more information about Computing Units

Once you've typed "exit" to end your session, you may close your SSH program window.

### If you get the message "There are stopped jobs":

It means that you've stopped a program with <control-Z>, or a background job has stopped and needs your attention.

If you accidentally leave jobs running in the background after you've logged out, they may consume all of your computing units.

To kill jobs, refer to the following URL:

<http://acs.ucsd.edu/info/jobctrl.php>



### ACS Account Services

Hours: Monday - Friday, 10:00 AM - 3:30 AM

Office: Applied Physics & Mathematics Building 2113

Phone: (858) 534-4060 or extension 44060 (on-campus)

E-mail: [acs-consult@ucsd.edu](mailto:acs-consult@ucsd.edu)

### 24-hour Trouble Report Line

(858) 534-3ACS or extension 43ACS (on-campus)

Please call this number if you are having trouble with equipment or need supplies.