Introduction

This document is a quick reference for the beginning Oahu user of the UNIX systems of the University of Hawai‘i Information Technology Services (ITS).

Applying for a UH Username and Password

To access the UNIX systems, you need to obtain a UH username and password which will identify you and allow you to use the UNIX systems. To obtain a UH username, follow the procedure below:

UH students (enrolled in credit courses), faculty, and staff: Visit the Web page

www.hawaii.edu/account

Click on the Get a UH Username! link. Fill in the form with your information and click on the Submit button. If you receive any error messages, please contact the ITS Help Desk at 956-8883 for more information or see your campus representative. A listing of campus representatives is available online at:

https://sunsys.its.hawaii.edu/pub/idreq-contacts.html

You can also e-mail your questions to:

help@hawaii.edu

or visit the Help Desk at the UH Mānoa campus, Keller Hall 105, Keller Hall 213, and ITS CLIC Lab (Sinclair 122).
UNIX Environment

The ITS UNIX environment consists of numerous Sun machines. These machines work together to provide an environment that allows you to login to a number of different systems. With a UH username, you can access the following system: uhunix2

As of this writing, uhunix2 runs SunOS 5.8 (most often called Solaris 8).

Software

Communications and file transfers: ftp, pine, tin
Editors: emacs, ex, pico, vi
File Compression and Encoding: arc, compress, gzip/gunzip, tar, uncompress, uuencode/decode
Information Retrieval/Services: lynx
Languages and Libraries: C, C++, gcc, g++, FORTRAN
Statistical/Mathematical: Minitab, SAS, SPSS
Text Processing: nroff/troff, enscript
Writing Aids: spell
Other Utilities: Standard Unix utilities, other unsupported tools can be found in /usr/uh/unsupported

To see which software is available, at your uhunix prompt type:

help software
Getting Connected to a UNIX System

There are various ways of getting connected to one of the UNIX systems. Public terminals and networked computers are available at the UH campuses. You can also access a UNIX system from home with a computer, modem, phone line, and appropriate communications software. The following instructions explain how to connect to a UNIX system from UH Mānoa. After you have established a connection, continue on to the instructions under Logging In.

Connecting from UH Mānoa

VIA THE UH NETWORK OR INTERNET
Public terminals are available in the lobby on the first floor of Keller Hall. The Keller 105 Lab, the ITS PC Lab (Keller 213), the ITS Hamilton Lab (Hamilton Library) and the ITS CLIC Lab (Sinclair Library 122) also have computers that have Internet connectivity.

You can access uhunix2 directly through an Internet connection if your computer system is already on the UH Network or the Internet. If you are using a PC from any of the ITS computer labs, use the SSH application to remotely login to the UNIX system. If you are using a Macintosh in the lobby or one of the ITS computer labs, use the Terminal application to remotely login to the UNIX system. When you see the login: prompt, proceed with the instructions under Logging In.

DIALING IN VIA THE UH MODEM POOL
With a modem, you can dial in and access the UNIX. To connect to the UH modem pool, you will need to have PPP software installed on your computer. If you are using Windows 95 or later, or a Macintosh with MacOS 8.6 or higher, the operating system comes with the necessary software to connect to the UH modem pool.

Installation and configuration instructions are available on the ITS CD-ROM, at the Help Desk or online at:

www.hawaii.edu/itsdocs

Once you properly install and configure the PPP software. You will need to run SSH software to connect the uhunix system. If you are using Windows, you will need to use SSH. SSH can be downloaded from:

www.hawaii.edu/help

If you are using a Macintosh, you will need to use MacSSH (for Mac OS 8.x – 9.x) or iTerm (for Mac OS X). MacSSH and iTerm may also be downloaded from:

www.hawaii.edu/help

The University has a limited number of modems. ITS recommends that you connect to the Internet via your own Internet Service Provider (ISP).
Logging In

At the login: prompt, type your UH username in lowercase and press RETURN. You will then see the password: prompt. Type in your password and press RETURN (your password will not display as you type). The UNIX system will respond with a welcome message. The welcome message may be followed by a broadcast message from the system management. You should always read this for important announcements about the system. Finally, a % (percent) prompt will display, indicating that you are successfully logged in and that the system is ready for your next command. The following is an example of a successful login:

login: edgar
Password: (your password)
Last login: Thu Sep 9 14:54:04 on ttyhf
Sun Microsystems Inc. SunOS 5.5.1 Generic
May 1996
%

Logging Out

To log out, type logout and press RETURN at the % prompt. The system prints the date and time when the interactive session ended. If the message There are stopped jobs appears, type help stopped.jobs to see how to get out of this situation.

Some Helpful Hints

After typing a line at your terminal, press RETURN to send it to the computer. UNIX is case-sensitive. Most commands should be typed using lower-case. To correct typing mistakes, use the DELETE or BACKSPACE key. Control-c is the usual interrupt character. Typing it twice in succession should always return you to the % prompt. Press Control-s to stop UNIX’s scrolling while displaying information. Press Control-q to resume scrolling when you are ready to continue reading.

System Availability

UNIX is available 24 hours a day, 7 days a week. System maintenance is scheduled as needed. Keep an eye on broadcast or login messages for notification of all planned downtimes. All scheduled maintenance is posted online at:

www.hawaii.edu/technews

The ITS Help Desk continually monitors the status of the ITS systems. To check on system status, please call the ITS Help Desk at 956-8883. You may also refer to the web page address above, as it will also contain the current status of all ITS systems.
UNIX Help

UNIX provides on-line help about the system and commands in several ways. The news command displays information about recent developments on the system. The help command displays information about subjects particular to this system, e.g. for information on UNIX's printers, type help printers. For a list of help topics, type help help.

The man command displays the manual page for any command on your screen. For example, if you want to find out all the options in the more program, type

```plaintext
man more
```

A formatted document describing the more command will then be displayed one screen at a time. If you know what you want to do but do not know what command will perform the task for you, think of a keyword related to the task and use the apropos command to find all commands with that keyword in their description line. For instance,

```plaintext
apropos file
```

will list commands such as ls, rm, cp, and others that are related to file handling.

Locally written documents are obtainable at the Help Desk in Keller 105 and online at www.hawaii.edu/itsdocs. Use a web browser (e.g. Netscape Navigator or Microsoft's Internet Explorer) or type lynx on UNIX.

On-line consulting is available through e-mail. Send mail to the Help Desk by typing

```plaintext
pine help
```

Enter your ITS username at the cc: prompt to receive a carbon copy of your message (or press RETURN if not). Then enter a subject, type your message, and send by pressing Control-x.
Computer Labs

ITS manages four computer labs on the UH Mānoa campus. These labs are available for the University community. A valid UH username and password is required to use the labs.

CLIC Lab at Sinclair Library 122 (Ph #: 956-8702)

Hours: 15 min. after Sinclair opens,
15 min. before Sinclair closes,
everyday except holidays.
Extended hours as posted.

ITS Hamilton Lab at Hamilton Library, Phase III 2nd Floor (Ph #: 956-0742)

Hours: 15 min. after Hamilton opens,
15 min. before Hamilton closes,
everyday except holidays.
Extended hours as posted.

ITS PC Lab at Keller 213 (Ph #: 956-6212)
ITS Keller 105 Lab (Ph #: 956-8056)

Hours: Fall and Spring Semesters
Monday – Thursday: 8:00 am - 9:30 pm
Friday: 8:00 am - 4:30 pm

Interim, Spring Break, Summer Sessions
Monday – Friday: 8:00 am - 4:30 pm
Closed on weekends and holidays.
Extended hours as posted.

For more information on the ITS Labs, please visit:

www.hawaii.edu/itslab

Getting Help

For additional assistance, please phone the ITS Help Desk at (808) 956-8883,
send e-mail to help@hawaii.edu, or fax (808) 956-2108.

Or see the ITS Helpdesk home page at www.hawaii.edu/help
The ITS Help Desks are located in Keller 105 and the ITS PC Lab on the UH Mānoa Campus.

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