

# Accessing Files

## Accessing via SSH

The following tutorial should help you in using SSH to connect to and from your HUBzero server(s). You should be relatively comfortable with using a terminal (also referred to as a "command-line tool") to navigate directories and manipulate files.

**Warning:** Most accounts do **not** have SSH/sFTP access initially. Your system administrator must grant your account access before you will be able to connect.

From a terminal type `ssh <user>@<host>`. You will then be prompted for a password. Both the username and password will typically be the same as the account you registered on <host>.

```
yourmachine:~ you$ ssh username@host
yourmachine:~ you$ username@host password:
```

```
host ~
```

## Windows Clients

- [PuTTY](#) (a Telnet and SSH client)

## Mac OSX

All versions of Mac OSX come with Terminal.app which may be found in the /Utilities directory of your /Applications directory.

## Accessing via sFTP

sFTP, or secure FTP, is a program that uses SSH to transfer files. Unlike standard FTP, it encrypts both commands and data, preventing passwords and sensitive information from being transmitted in the clear over the network. It is functionally similar to FTP, but because it uses a different protocol, you can't use a standard FTP client to talk to an sFTP server, nor can you connect to an FTP server with a client that supports only sFTP.

The following tutorial should help you in using sFTP to connect to and from your HUBzero server(s).

**Warning:** Most accounts do **not** have SSH/sFTP access initially. Your system administrator

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must grant your account access before you will be able to connect.

### Graphical Clients

Using graphical SFTP clients simplifies file transfers by allowing you to transmit files simply by dragging and dropping icons between windows. When you open the program, you will have to enter the name of the host (e.g., yourhub.org) and your HUB username and password.

#### Windows Clients

- [WinSCP](#)
- [BitKinex](#)
- [FileZilla](#)
- [PuTTY](#)

#### Mac OSX Clients

- [Transmit](#)
- [Fetch](#)
- [Cyberduck](#)
- [Flow](#)
- [Fugu](#)

### Command-line

You can use command line SFTP from your Unix account, or from your Mac OS X or Unix workstation. To start an SFTP session, at the command prompt, enter:

```
yourmachine:~ you$ sftp username@host
yourmachine:~ you$ username@host password:
```

**host** ~

Some standard commands for command-line sFTP

Command	Description
cd	
chmod	
chown	
dir (or ls)	
exit (or quit)	
get	

Char  
Char  
comp  
Char  
comp  
List t  
remo  
Close  
and e  
Copy  
local

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Command	Description	
	help (or ?)	Get h
	lcd	Chan
	lls	See a
		the lo
	mkdir	Crea
	ln (or symlink)	Crea
		comp
	lpwd	Show
		direc
	lumask	Chan
	mkdir	Crea
	put	Copy
		remo
	pwd	Show
		direc
	rename	Rena
	rm	Delet
	rmdir	Remo
		direc
	version	Displ
	!	In Un
		enter
		SFTP
		!pwd
		dropp

### Finding Files

Once connected to a server, by either sFTP or directly with SSH, you will need to find the web root which contains the HUB install. The web root for the production version of a HUB can be found at /www/yourhub. Typically, HUBs will also have a development version of a HUB, which can be found at /www/dev.

Once in the desired directory, file layout and directory structure follows Joomla! 1.5 conventions unless otherwise noted.

See the [Installation](#) overview for details on a typical HUBzero install's directory structure.