

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 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
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	cd	Change the current directory
--	----	------------------------------

	chmod	Change the permissions of a file or directory
--	-------	---

	chown	Change the owner of a file or directory
--	-------	---

	dir (or ls)	List the contents of the current directory
--	-------------	--

	exit (or quit)	Close the SFTP session and return to the local shell
--	----------------	--

	get	Copy a file from the remote host to the local host
--	-----	--

	help (or ?)	Get help on the SFTP commands
--	-------------	-------------------------------

	lcd	Change the local directory
--	-----	----------------------------

Change the current directory
Change the permissions of a file or directory
Change the owner of a file or directory
List the contents of the current directory
List the contents of the remote directory
Close the SFTP session and return to the local shell
Copy a file from the remote host to the local host
Get help on the SFTP commands
Change the local directory

