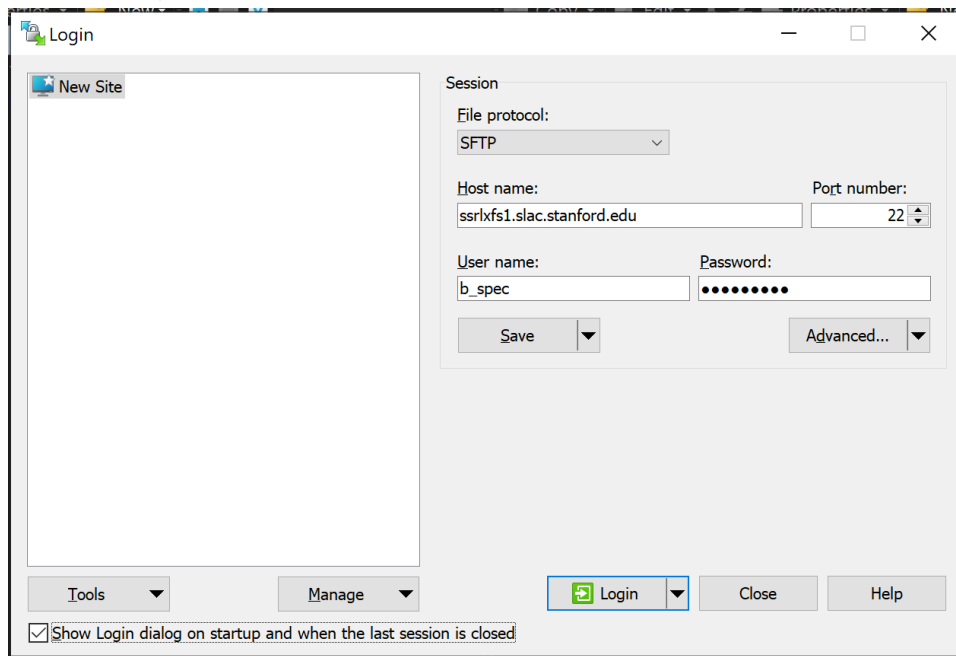# SSRL MSD Beam Lines

For Windows (WinSCP)
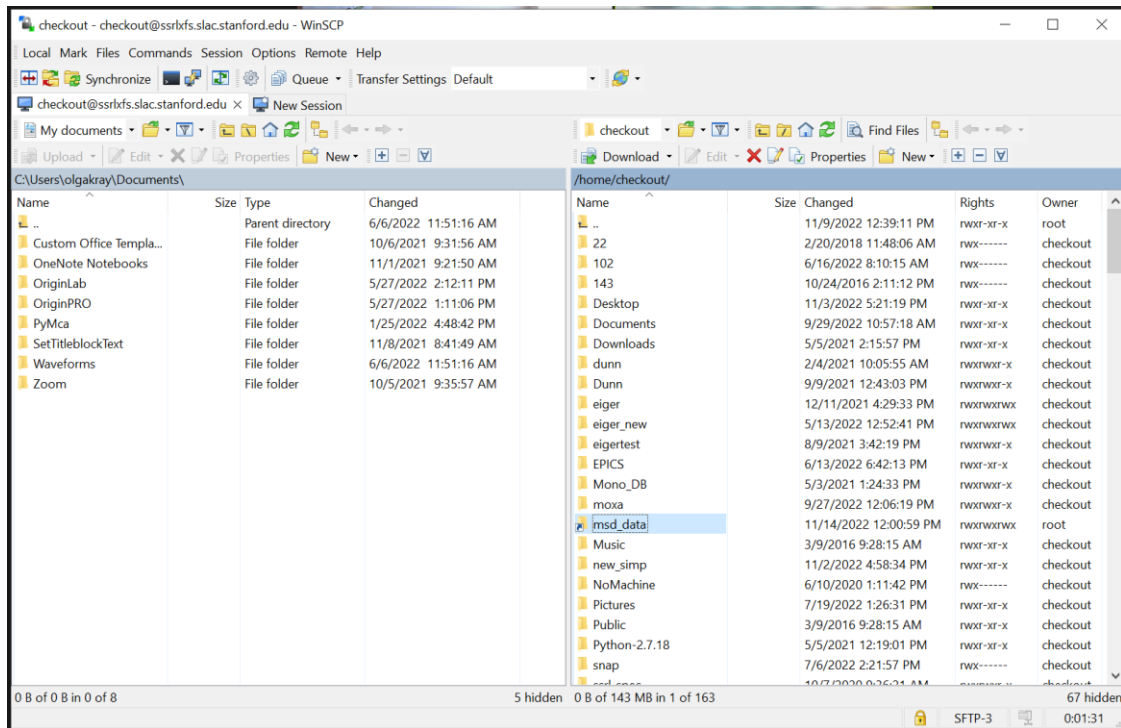
1. If the users laptop has any installed application for SFTP (secure FTP), go to step 2. Download and install freeware WinSCP: http://winscp.net/eng/download.php
2. **Start WinSCP, and enter ssrlxfs1.slac.stanford.edu**
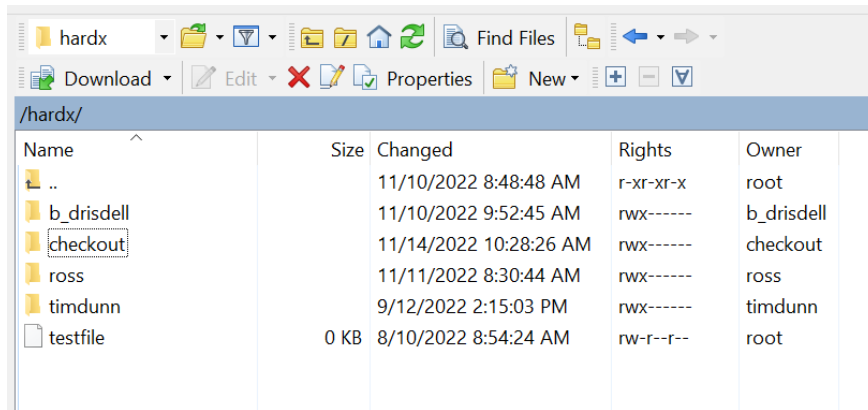

Enter b_yourusername and password.

Click to Login.

This will get you to: /home/b_yourusername

Navigate to the root folder **/hardx/**

Find your b_yourusername folder ("checkout" in this example)

Pick the relevant beamline number and this will match the content shown on **X:** drive for that username.

Click and drag files to your local directory.

When all data is copied go to Session -> Disconnect to close an active session on ssrlxfs1.

For Windows/MAC/Linux (Using terminal commands)

SFTP

SFTP is an interactive file transfer program, similar to ftp, which performs all operations over an encrypted ssh transport.

Connecting

Open a terminal window and type in:

sftp b_yourusername@ssrlxfs1.slac.stanford.edu

```
X:\>sftp checkout@ssrlxfs1.slac.stanford.edu
checkout@ssrlxfs1.slac.stanford.edu's password:
Connected to checkout@ssrlxfs1.slac.stanford.edu.
sftp>
```

b_yourusername is your network account username and ssrlxfs.slac.stanford.edu is the remote server to which you're connecting.

You are now in directory **/home/b_yourusername/**

Change directory to /hardx/b_yourusername

cd /hardx/b_yourusername

Choose the beam line specific data by navigating to the beam line folder:
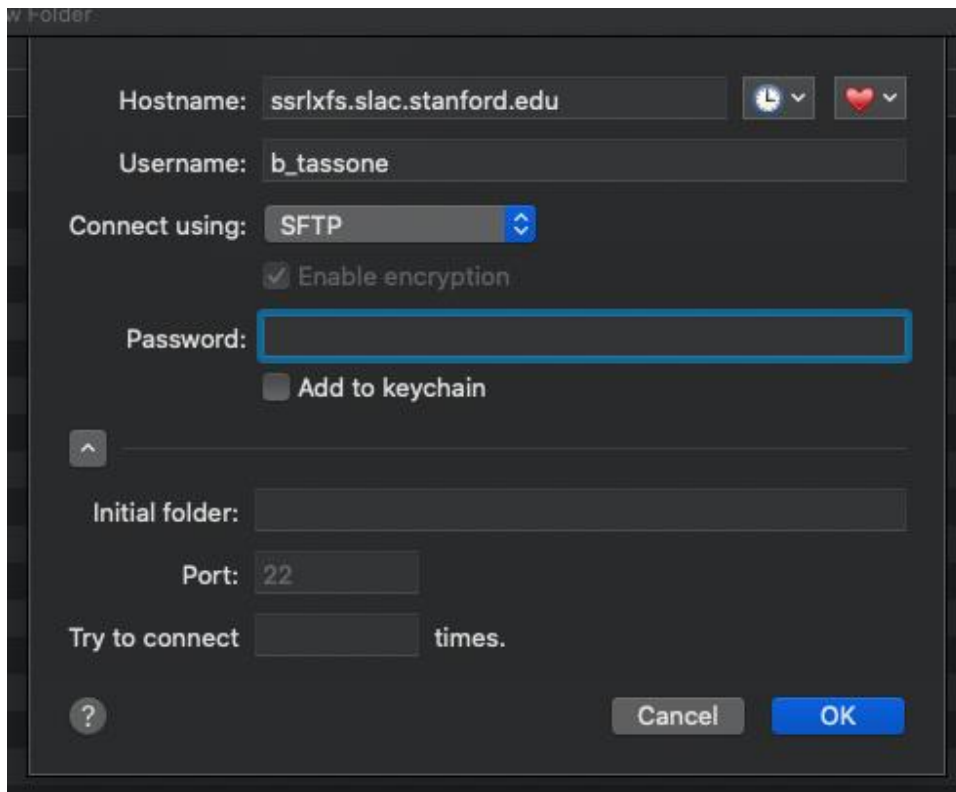
cd bl11-3

Once in the directory with the data, navigate to the location you want the data to go on your computer using "lpwd", "lls" and "lcd" commands (see description below).

Do "***get -r foldername***" to download all files in the relevant folder on the host and it will download to the local directory you have selected using the previous command.

The commands available in SFTP are:

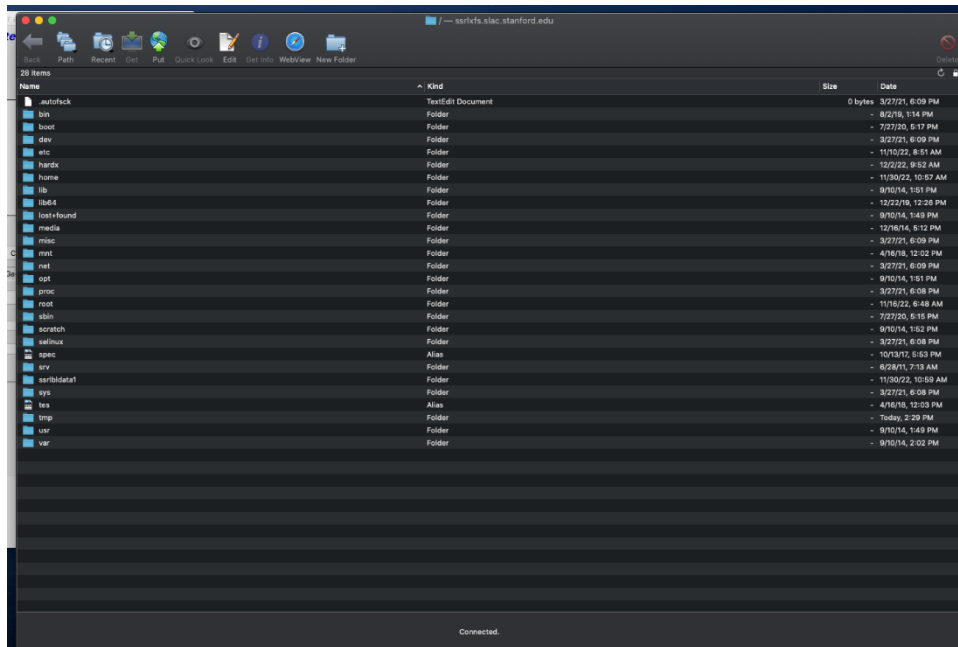| Command	Description
pwd	Print working directory of remote host
lpwd	Print working directory of local client
cd	Change directory on the remote host
lcd	Change directory on the local client
ls	List director on the remote host
lls	List directory on the local client
mkdir	Make directory on remote host
lmkdir	Make directory on local client
get	Receive file from remote host to local client
get -r	Receive all files in the directory
put	Send file from local client to remote host
help	Display help text

For MAC (Fetch)

1. Open Fetch
2. Hostname: ssrlxfs1.slac.stanford.edu
3. Username: b_yourusername
4. Connect using: SFTP
5. Password: Enter password
6. Port: 22
7. Click OK

8. Select "hardx"
9. Click on b_yourusername
10. Click on your beamlines folder
11. Navigate to your folder

To get previous data stored on P drive:

Instead of selecting "hardx", select "spec", then go to b_yourusername, then beamline folder, navigate to your folder.