

SFTP Crash Course

What is SFTP?

- A Program like scp, but allows you to navigate both the local and remote filesystems while in SFTP.
- A little easier to use sftp than scp, in my opinion.
- Should be installed already on most systems

Connecting to Vulcan using sftp

```
PS C:\Users\Dylan> sftp dylcal13@moat.cs.uab.edu  
dylcal13@moat.cs.uab.edu's password:  
Connected to moat.cs.uab.edu.  
sftp>
```

Navigating Vulcan using sftp

There are nine commands you really need to know to use an sftp session

cd - Changes your directory in vulcan

ls - shows you what's in the current directory on Vulcan

lcd - Changes your directory on your computer

lls - Shows you whats in the current directory on your computer

put - uploads a file to the current location on vulcan

get - downloads a file to the current directory on your computer from vulcan

help - opens the help menu for more commands in sftp

Example: Downloading a File from Vulcan

```
PS C:\Users\Dylan> sftp dylcal13@moat.cis.uab.edu
dylcal13@moat.cis.uab.edu's password:
Connected to moat.cis.uab.edu.
sftp> pwd
Remote working directory: /home/UAB/dylcal13
sftp> cd CS330
sftp> cd lab1
sftp> ls
hello      hello.c
sftp> lpwd
Local working directory: c:\users\dyland
sftp> lcd Desktop
sftp> get hello.c
Fetching /home/UAB/dylcal13/CS330/lab1/hello.c to hello.c
/home/UAB/dylcal13/CS330/lab1/hello.c      100%   79    2.7KB/s   00:00
sftp> bye
```

Example: Downloading a File from Vulcan

`pwd` – finding out where I am on Vulcan

`cd CS330` – going to the CS330 Folder on vulcan

`cd lab1` – going to the lab1 Folder on vulcan

`ls` – listing available files in the lab1 folder on vulcan

`lpwd` – finding out where I am on my computer

`lcd Desktop` – going into the desktop folder on my computer

`get hello.c` – Download the hello.c file and put it in the Desktop folder

`bye` – exit sftp

Example: Pushing a File to Vulcan

```
PS C:\Users\Dylan> sftp dylcal13@moat.cis.uab.edu
dylcal13@moat.cis.uab.edu's password:
Connected to moat.cis.uab.edu.
sftp> pwd
Remote working directory: /home/UAB/dylcal13
sftp> cd CS330
sftp> cd push_example
sftp> lpwd
Local working directory: c:\users\dylan
sftp> lcd Desktop
sftp> put hello.c
Uploading hello.c to /home/UAB/dylcal13/CS330/push_example/hello.c
hello.c                                     100%   79    4.9KB/s   00:00
sftp> bye
```

Example: Pushing a File to Vulcan

`pwd` – Find out what folder I'm in in Vulcan

`cd CS330` – go into the CS330 folder on Vulcan

`cd push_example` – go into the folder I want to upload my file to

`lpwd` – find out where I am on my computer

`lcd` – go into the Desktop folder

`put hello.c` – uploads the hello.c file to the push_example folder on Vulcan

`bye` – exits sftp

Additional Resources

- <https://linuxize.com/post/how-to-use-linux-sftp-command-to-transfer-files/>
- <https://www.digitalocean.com/community/tutorials/how-to-use-sftp-to-securely-transfer-files-with-a-remote-server>