

# Getting your homework *from* the Linux servers *onto* your desktop to submit to Canvas.

- 1) Open a terminal on your personal machine and change directories to your desktop (or anywhere you want to receive your homework).
  - This is where your homework will be copied to.

```
Desktop — -zsh — 100x30
(base) nathanmetens@Nathans-MacBook-Air ~ % cd Desktop
(base) nathanmetens@Nathans-MacBook-Air Desktop %
```

- 2) Sign into the Linux server where your homework resides using **sftp**, not ssh:
  - **Secure File Transfer Protocol (SFTP)** is a network protocol that allows users to transfer files securely between a remote server and a client.  
[-https://en.wikipedia.org/wiki/SSH\\_File\\_Transfer\\_Protocol](https://en.wikipedia.org/wiki/SSH_File_Transfer_Protocol)

```
Desktop — ssh - sftp metens@linux.cs.pdx.edu — 100x30
(base) nathanmetens@Nathans-MacBook-Air Desktop % sftp metens@linux.cs.pdx.edu
(metens@linux.cs.pdx.edu) Password:
Connected to linux.cs.pdx.edu.
sftp>
```

- 3) Navigate to where your homework is located.

```
(base) nathanmetens@Nathans-MacBook-Air Desktop % sftp metens@linux.cs.pdx.edu
(metens@linux.cs.pdx.edu) Password:
Connected to linux.cs.pdx.edu.
sftp> ls
220hosts.txt          CS302                CS430
Desktop               Documents            Downloads
JoyOfCodingWinter2025 Music                Pictures
Practice              Public               Templates
Videos                Week3_late.pdf       Week7.pdf
Week8.pdf             X.sh                 cloud-metens-0ecfcdaf003d.json
cloud-metens.json     cs430-src            main.py
mine.txt              mpdemo               public_html
rever-lookup.sh       tcss

sftp> cd CS302
sftp> ls
Prog1    Prog2    Prog3    Prog4_5
sftp> cd Prog1
sftp> ls
cs302-001-program1
sftp> cd cs302-001-program1
sftp> ls
a.out          animal.cpp          animal.h          animalNames.txt
apples.cpp     apples.h            backup-prog1      cs302-001-prog1.tar
farm.cpp       farm.h              main.cpp           node.cpp
node.h         practice.cpp        trophy.txt
sftp>
```

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4) Type the right **get** command to get your homework (transferring a copy of your homework onto your local machine):

i) To get only one file: **get filename**

```
sftp> get farm.cpp
Fetching /u/metens/CS302/Prog1/cs302-001-program1/farm.cpp to farm.cpp
farm.cpp                                100% 26KB 383.2KB/s 00:00
sftp>
```

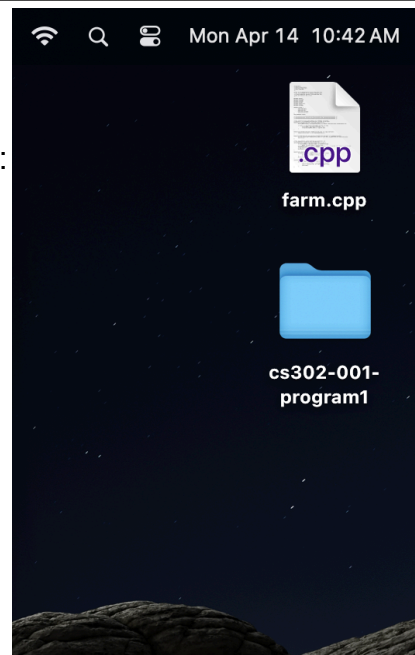
ii) To get an entire directory: **get -r directory**

- The “-r” flag is for **recursive**. This means getting everything inside the directory, *including* the directory.

```
sftp> cd ..
sftp> ls
cs302-001-program1
sftp> get -r cs302-001-program1
Fetching /u/metens/CS302/Prog1/cs302-001-program1/ to cs302-001-program1
Retrieving /u/metens/CS302/Prog1/cs302-001-program1
a.out                                100% 94KB 892.7KB/s 00:00
trophy.txt                           100% 178 4.6KB/s 00:00
farm.h                               100% 6706 154.6KB/s 00:00
animal.cpp                           100% 7058 141.1KB/s 00:00
node.h                               100% 709 14.9KB/s 00:00
animal.h                             100% 1972 41.0KB/s 00:00
cs302-001-prog1.tar                  100% 70KB 1.6MB/s 00:00
apples.h                             100% 1033 20.9KB/s 00:00
Retrieving /u/metens/CS302/Prog1/cs302-001-program1/backup-prog1
farm.h                               100% 6706 152.4KB/s 00:00
node.cpp                             100% 888 19.6KB/s 00:00
farm.cpp                             100% 26KB 534.7KB/s 00:00
animalNames.txt                      100% 204 4.7KB/s 00:00
node.h                               100% 709 12.8KB/s 00:00
apples.cpp                           100% 2593 57.3KB/s 00:00
apples.h                             100% 1033 14.9KB/s 00:00
main.cpp                             100% 5488 118.7KB/s 00:00
animal.cpp                           100% 7058 156.9KB/s 00:00
animal.h                             100% 1972 44.0KB/s 00:00
trophy.txt                           100% 178 4.0KB/s 00:00
animalNames.txt                      100% 204 3.8KB/s 00:00
main.cpp                             100% 5488 124.6KB/s 00:00
apples.cpp                           100% 2593 59.0KB/s 00:00
node.cpp                             100% 888 19.3KB/s 00:00
farm.cpp                             100% 26KB 478.4KB/s 00:00
sftp>
```

5) Exit sftp.

6) Look at your desktop to see the homework:



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- 7) Drag and drop your homework file or folder into the Canvas DropBox, and you're done!