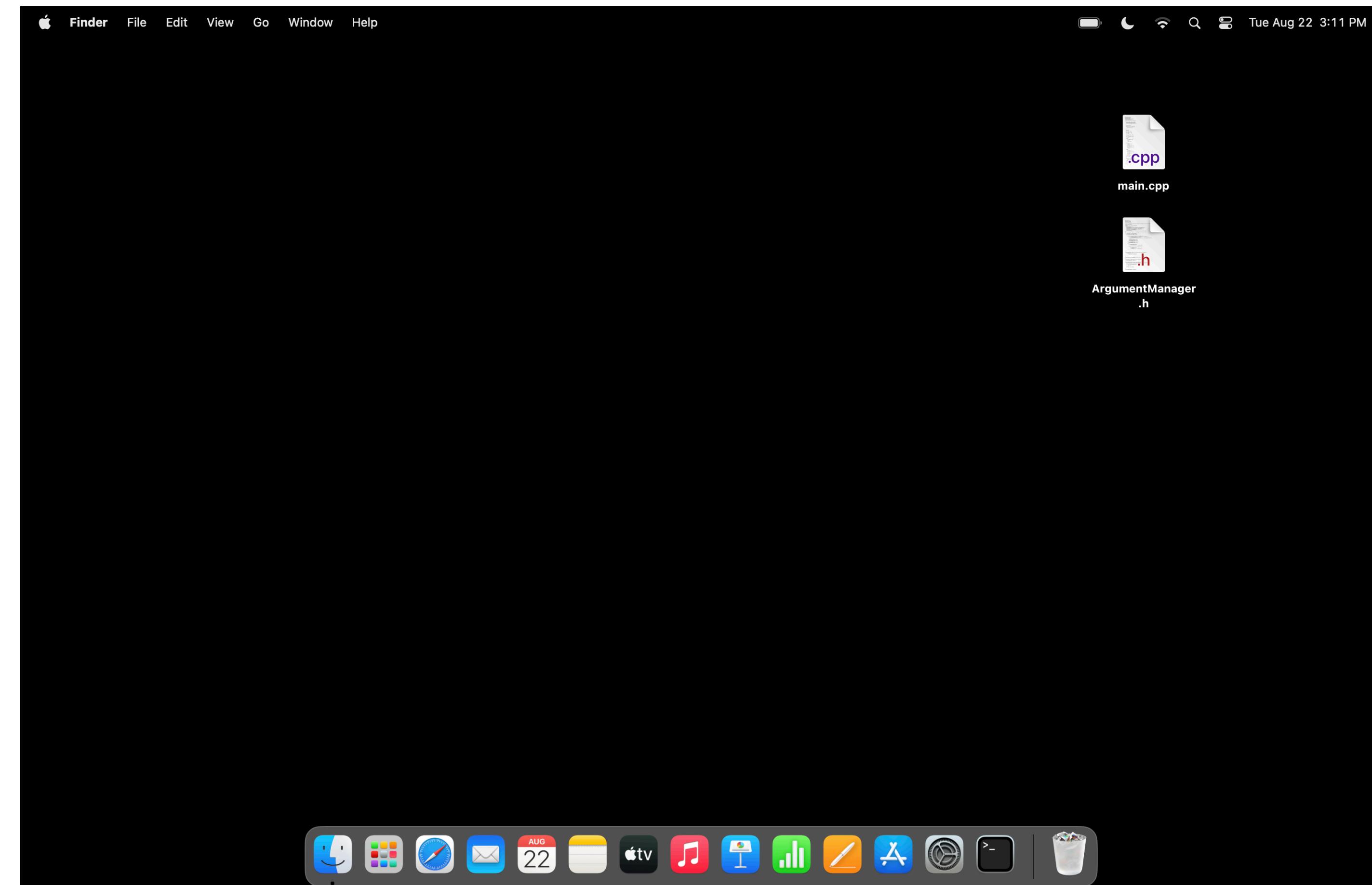


Uploading to the server

for Mac users

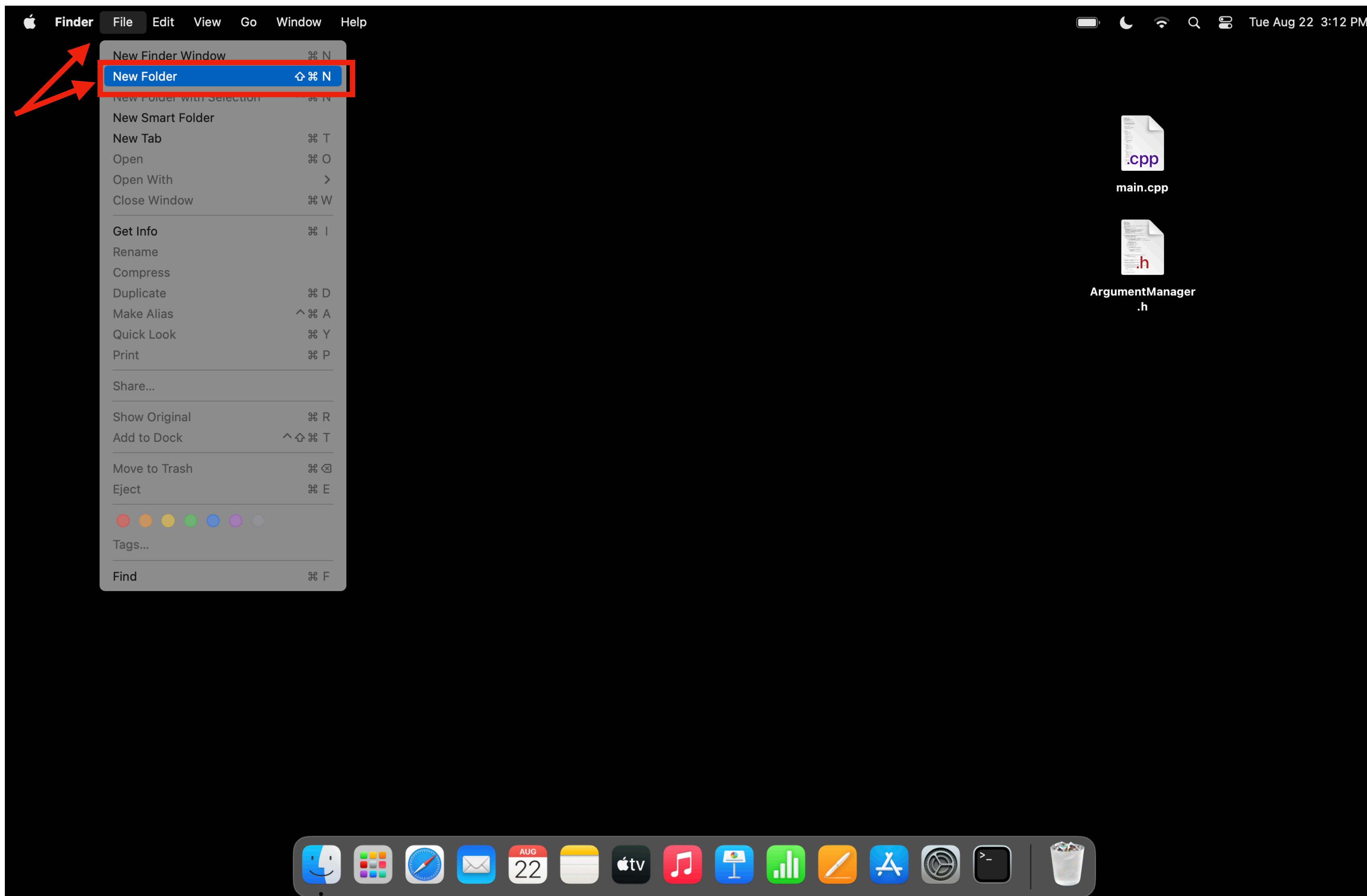
Step 1

Get your main.cpp file and ArgumentManager.h file ready to copy to the server



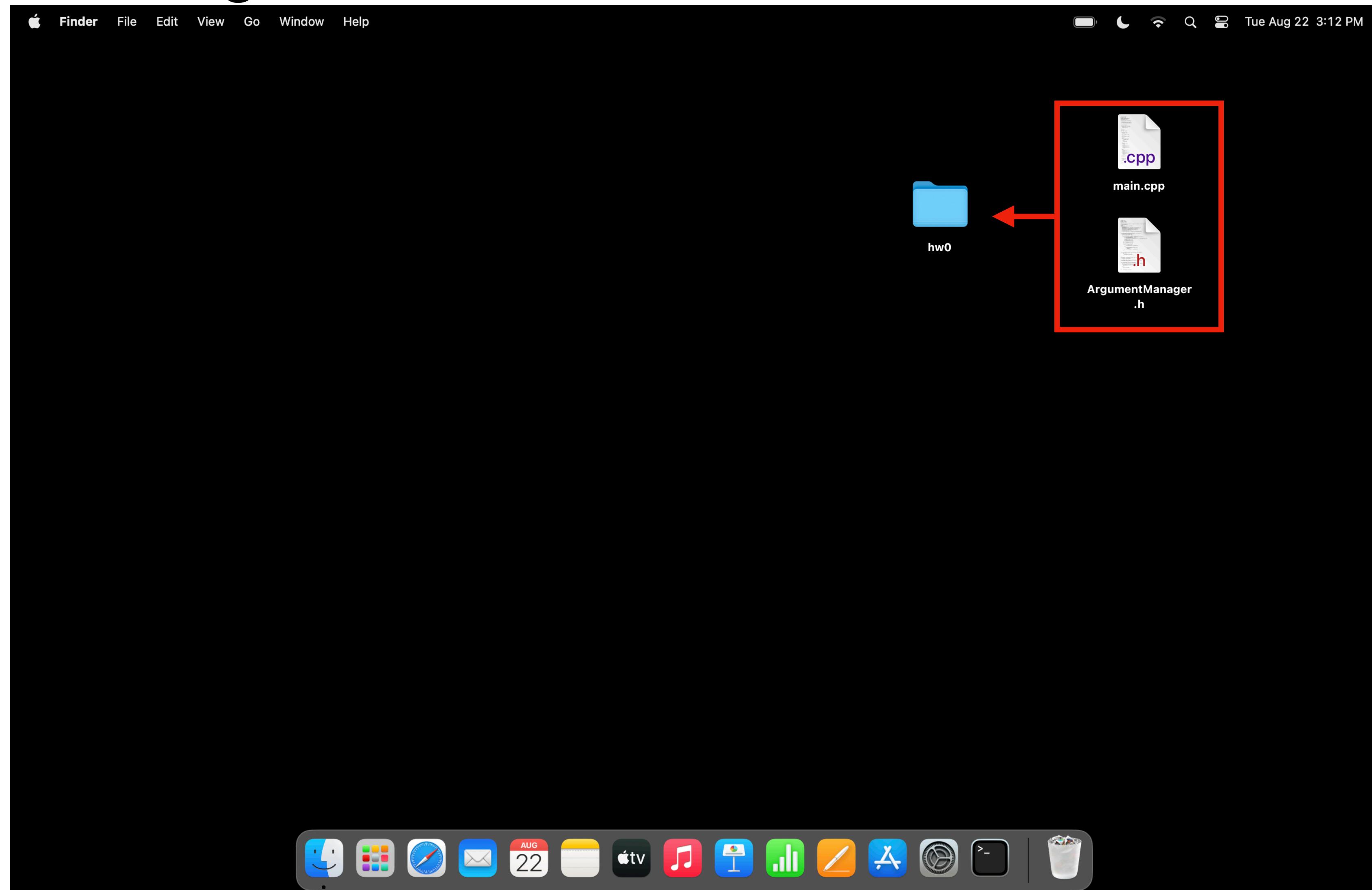
Step 2

Click on “File” then click “New Folder”



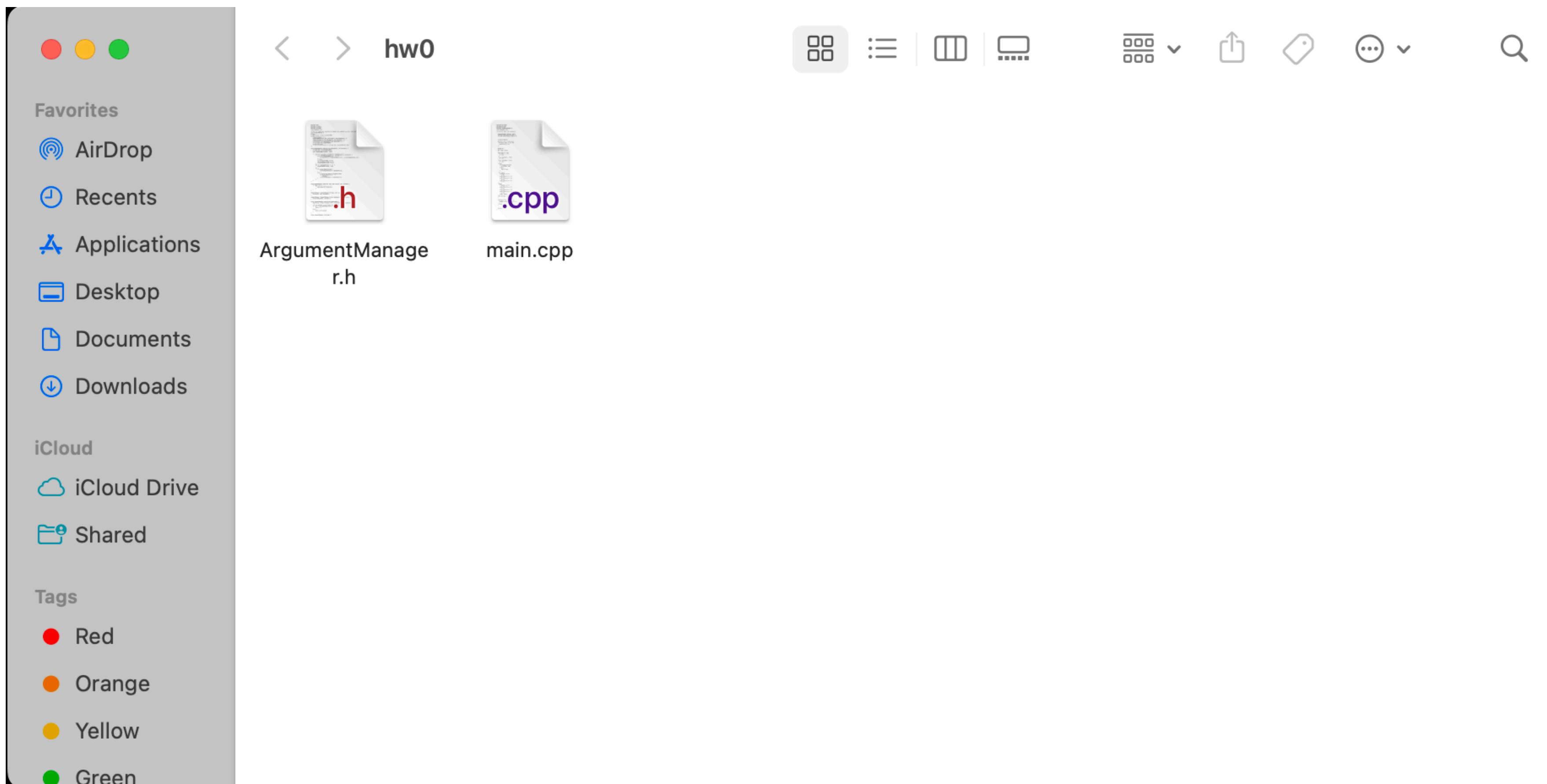
Step 3

Name the new folder “hw0” and drag and drop your main.cpp and the ArgumentManager.h files into the hw0 folder



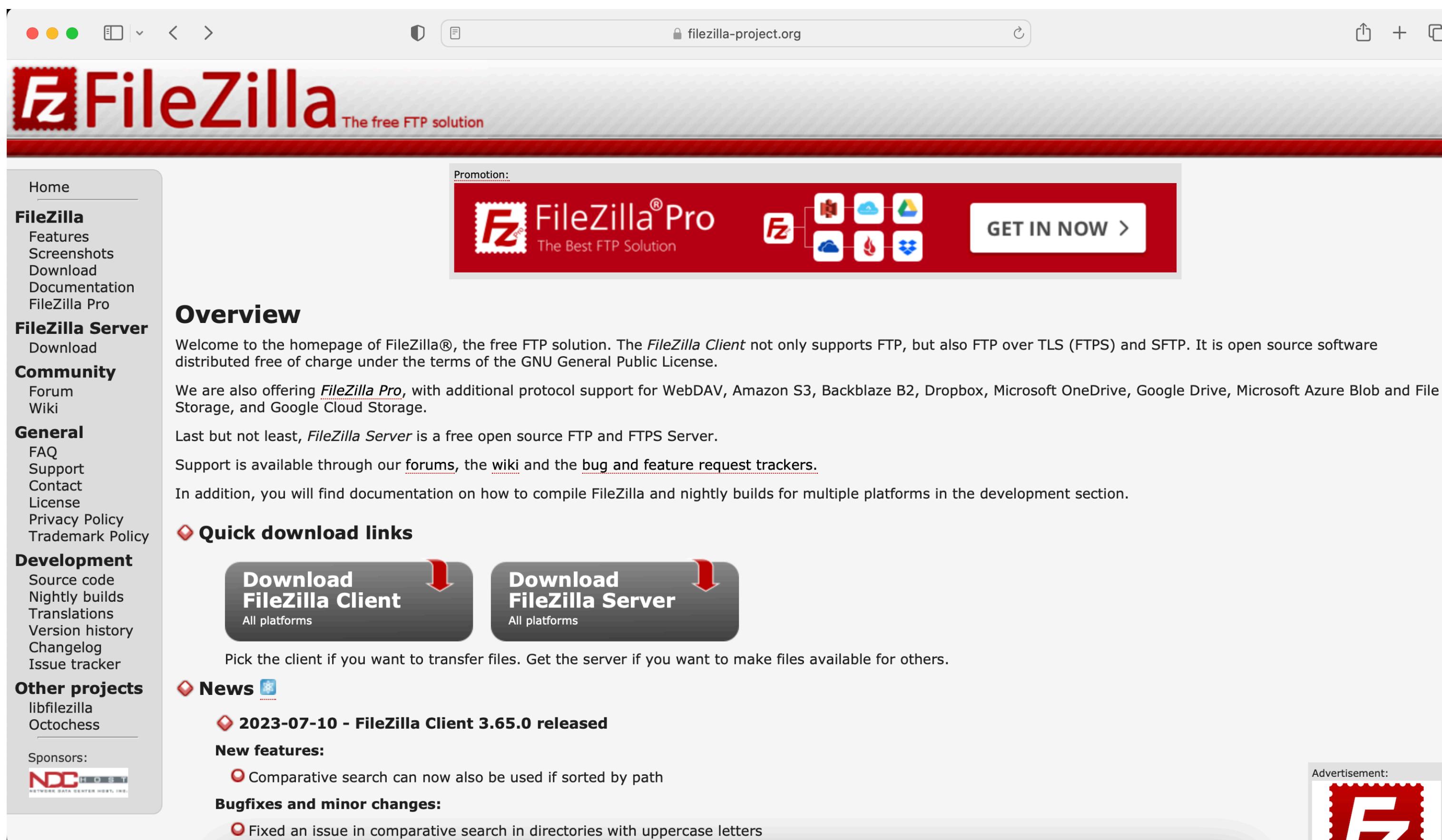
Our files are now in the hw0 folder and are ready to be put on the server.

The next steps will cover how to install FileZilla so if you already have it installed you can skip to Step 14 (slide 17).



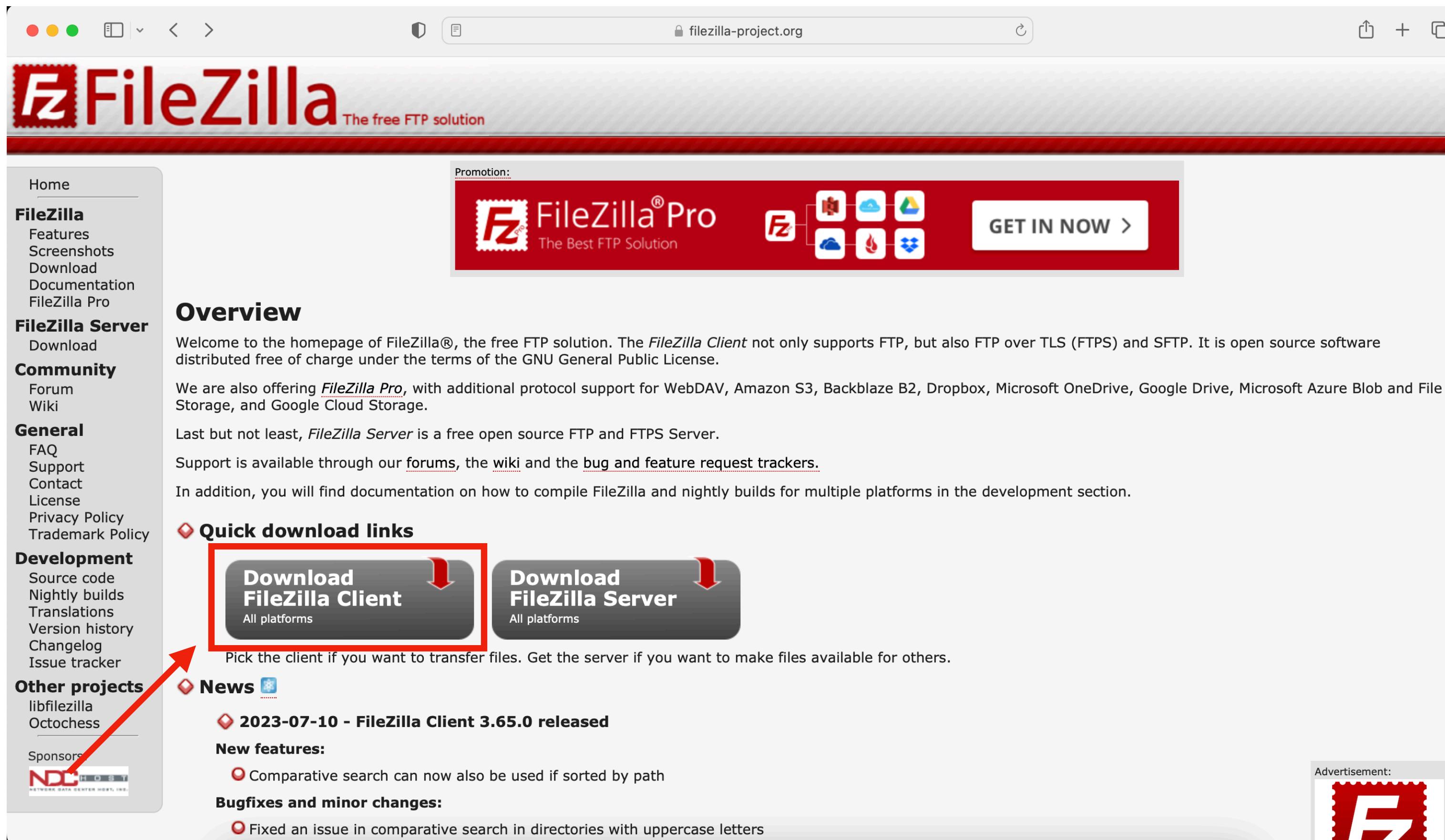
Step 4

Go to <https://filezilla-project.org/>



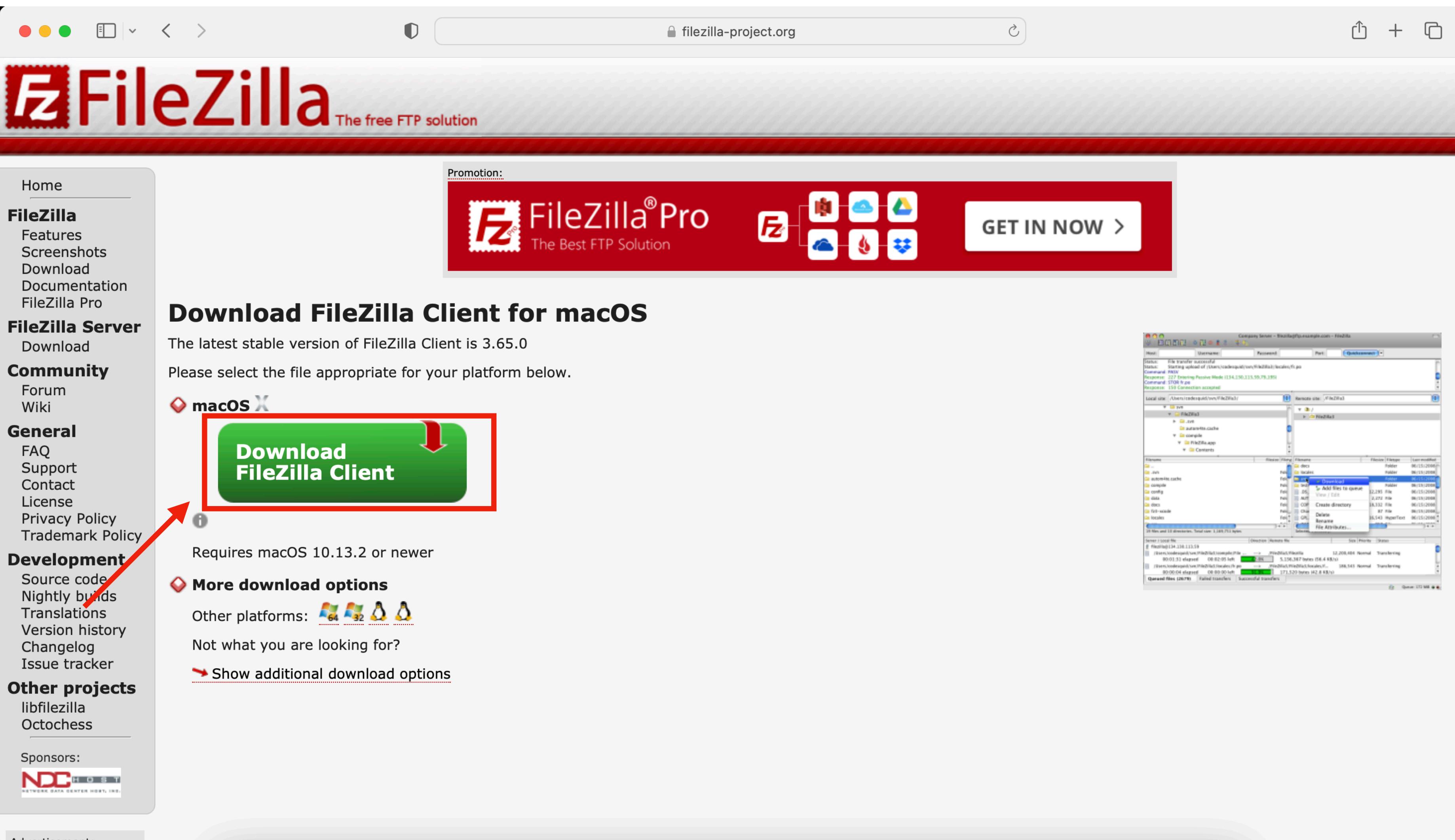
Step 5

Click “Download FileZilla Client”



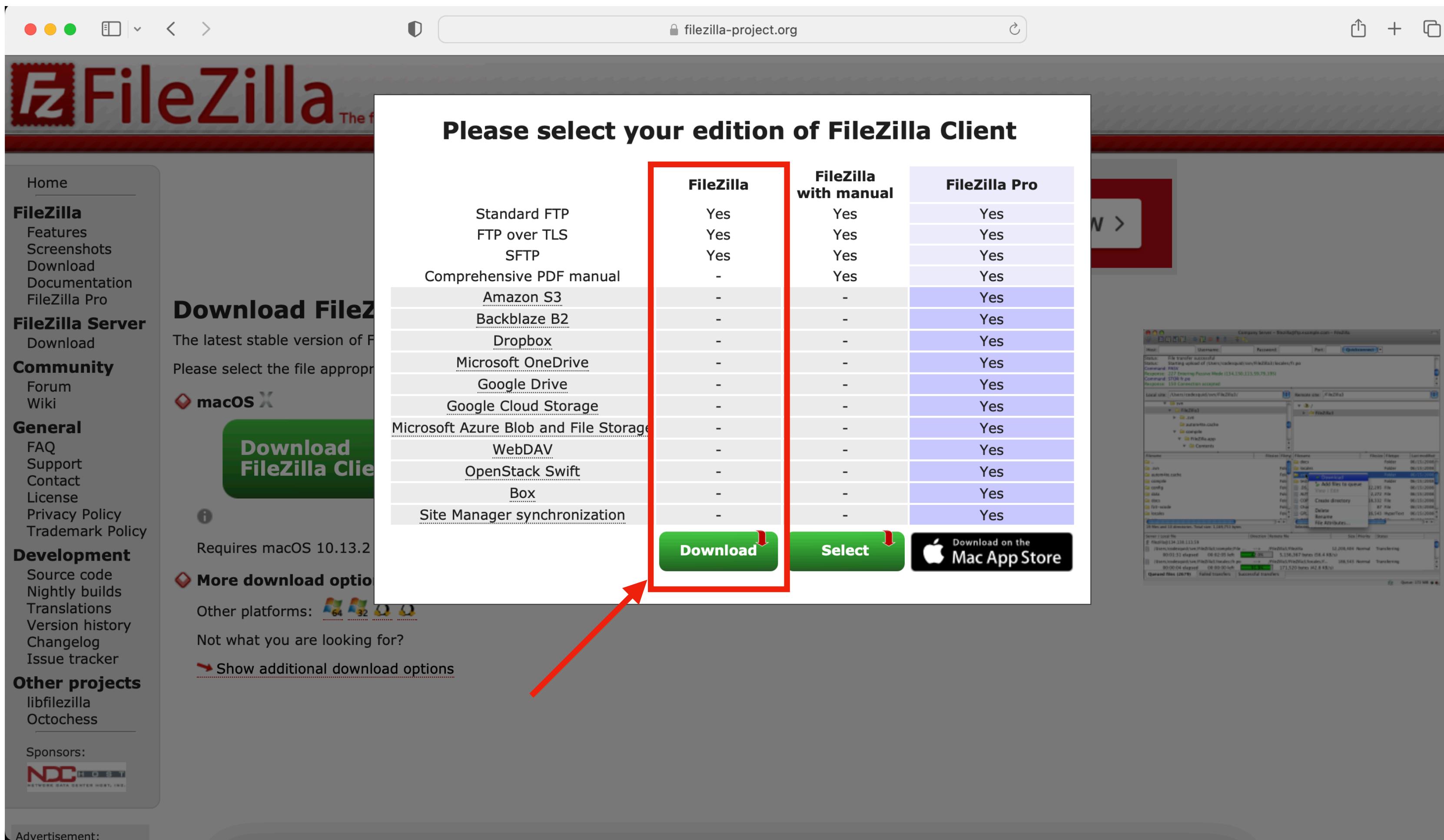
Step 6

Click “macOS Download FileZilla Client”



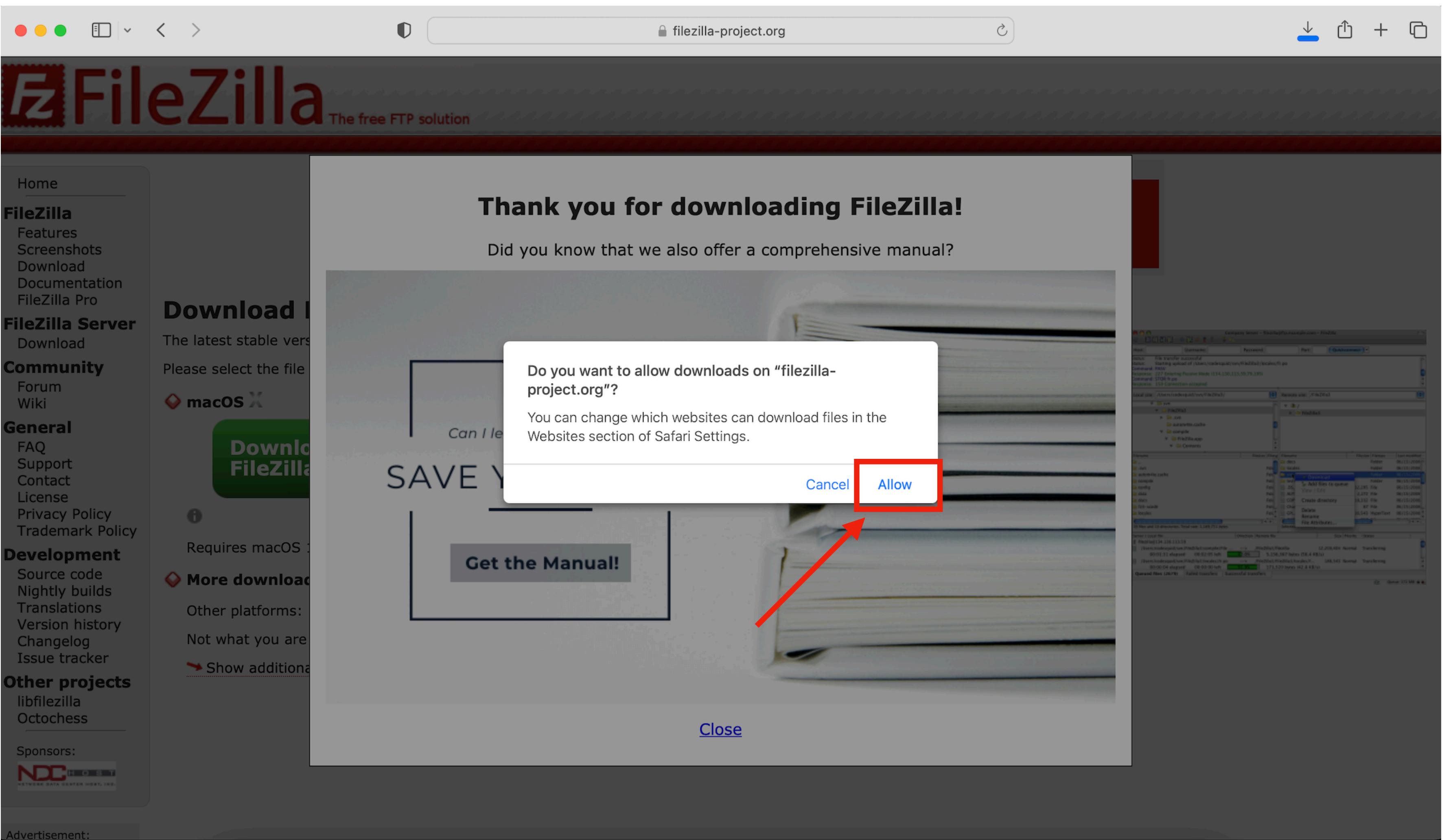
Step 7

Click the “Download” button under the “FileZilla” column



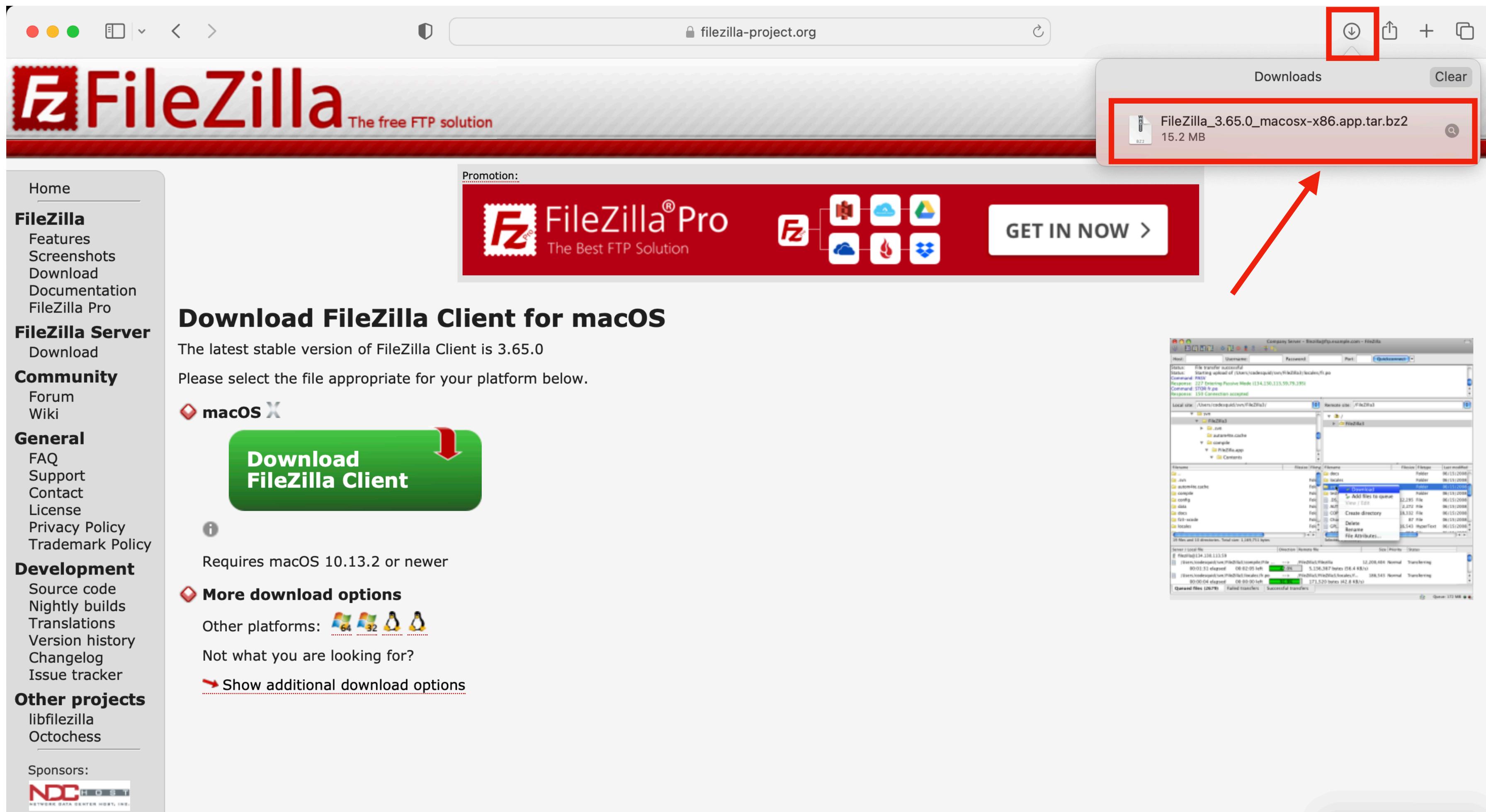
Step 8

Click “Allow”



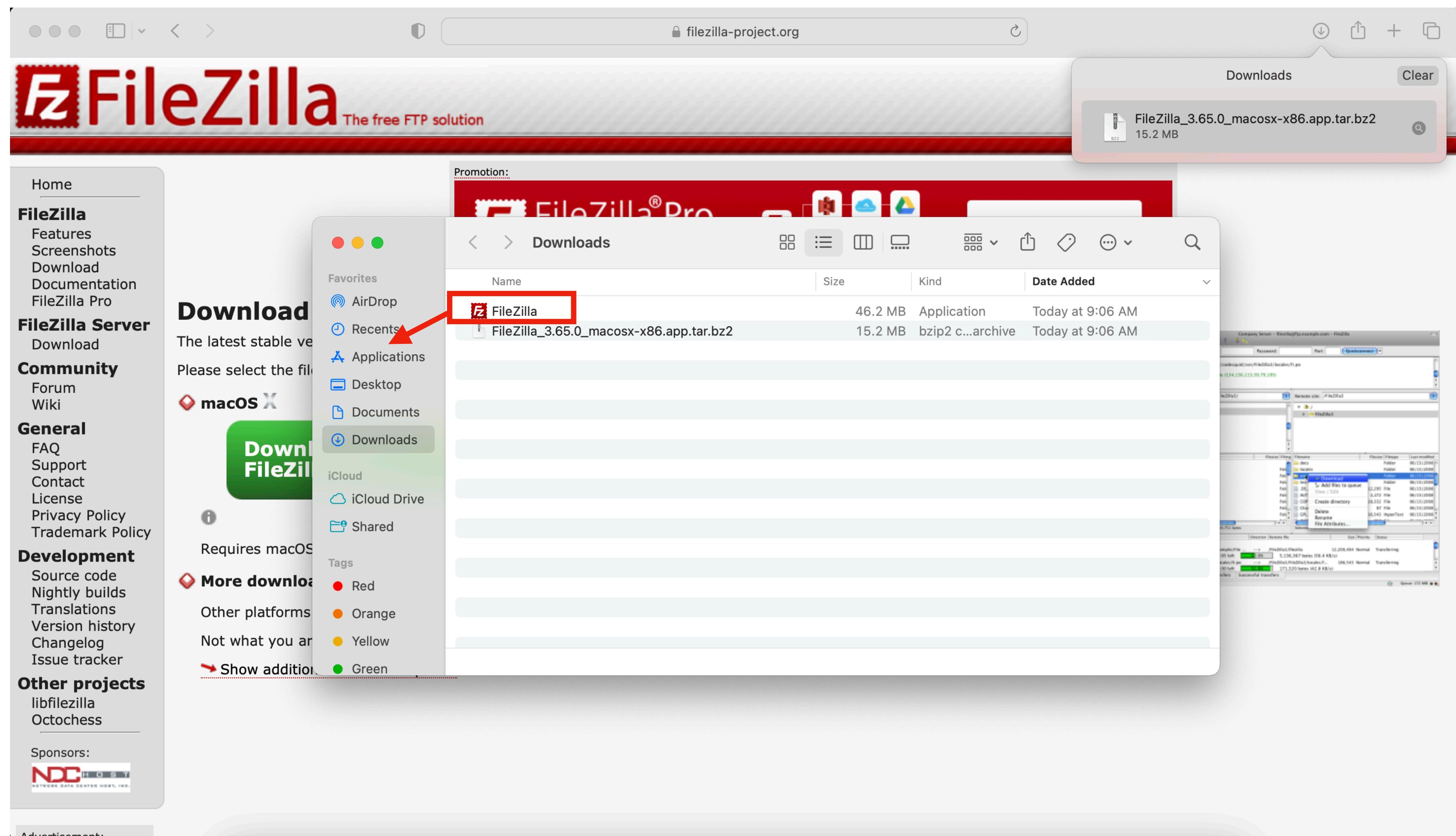
Step 9

Go to your downloads and double-click the file to start installation



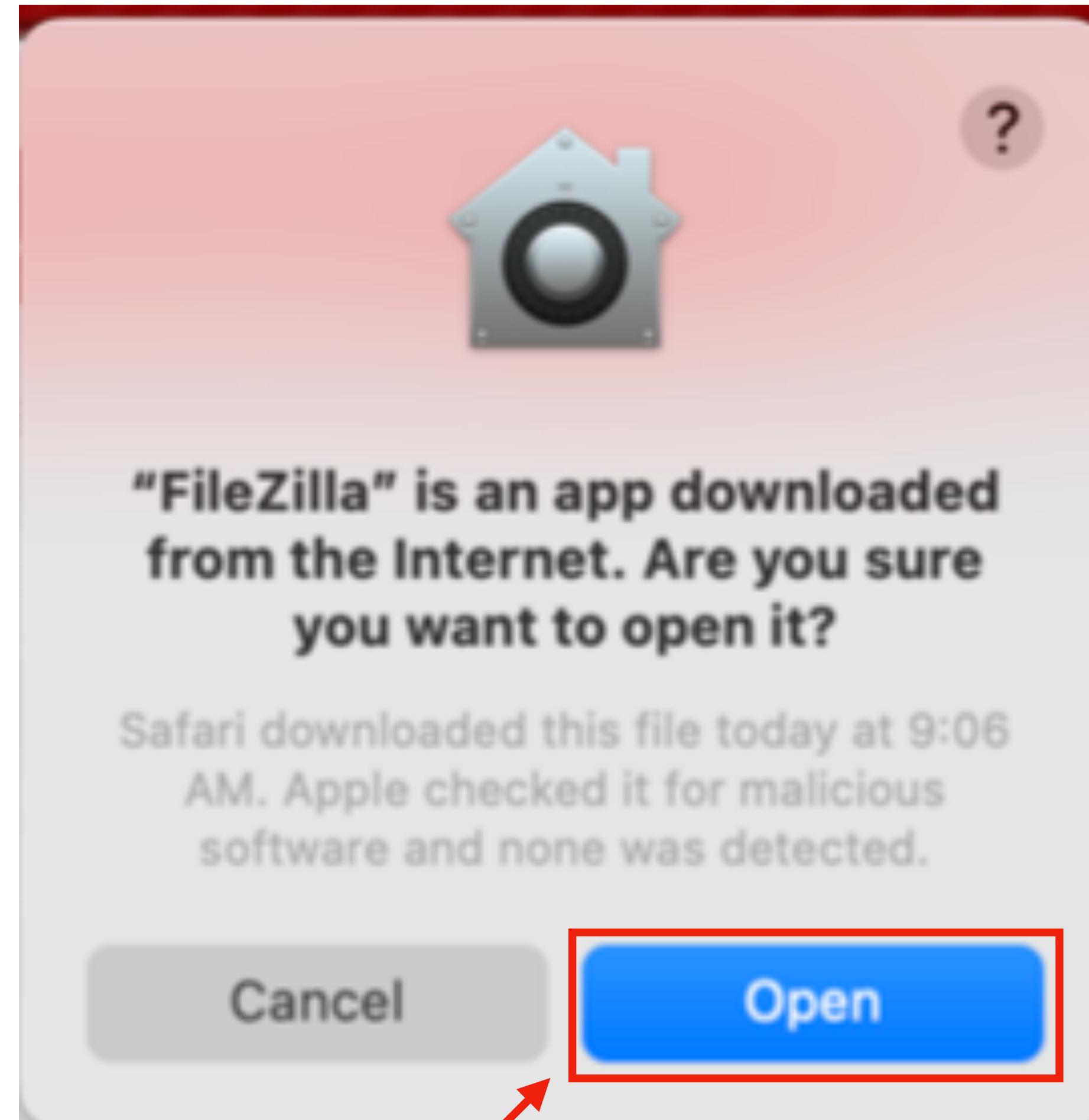
Step 10

After it is done downloading, you can drag and drop it to your “Applications” folder. You can then double click it to launch FileZilla.



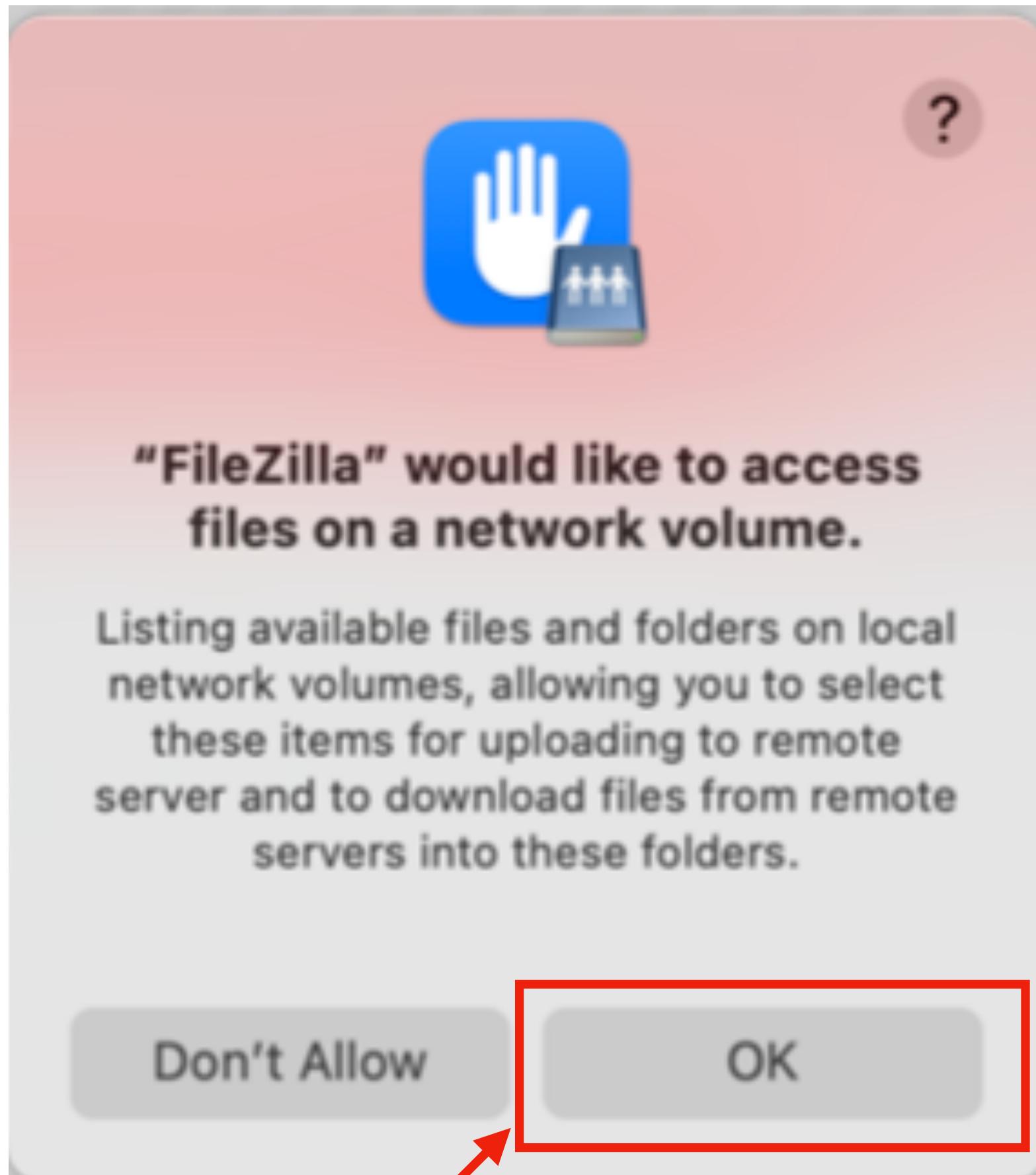
Step 11

If this pops up, click “Open”



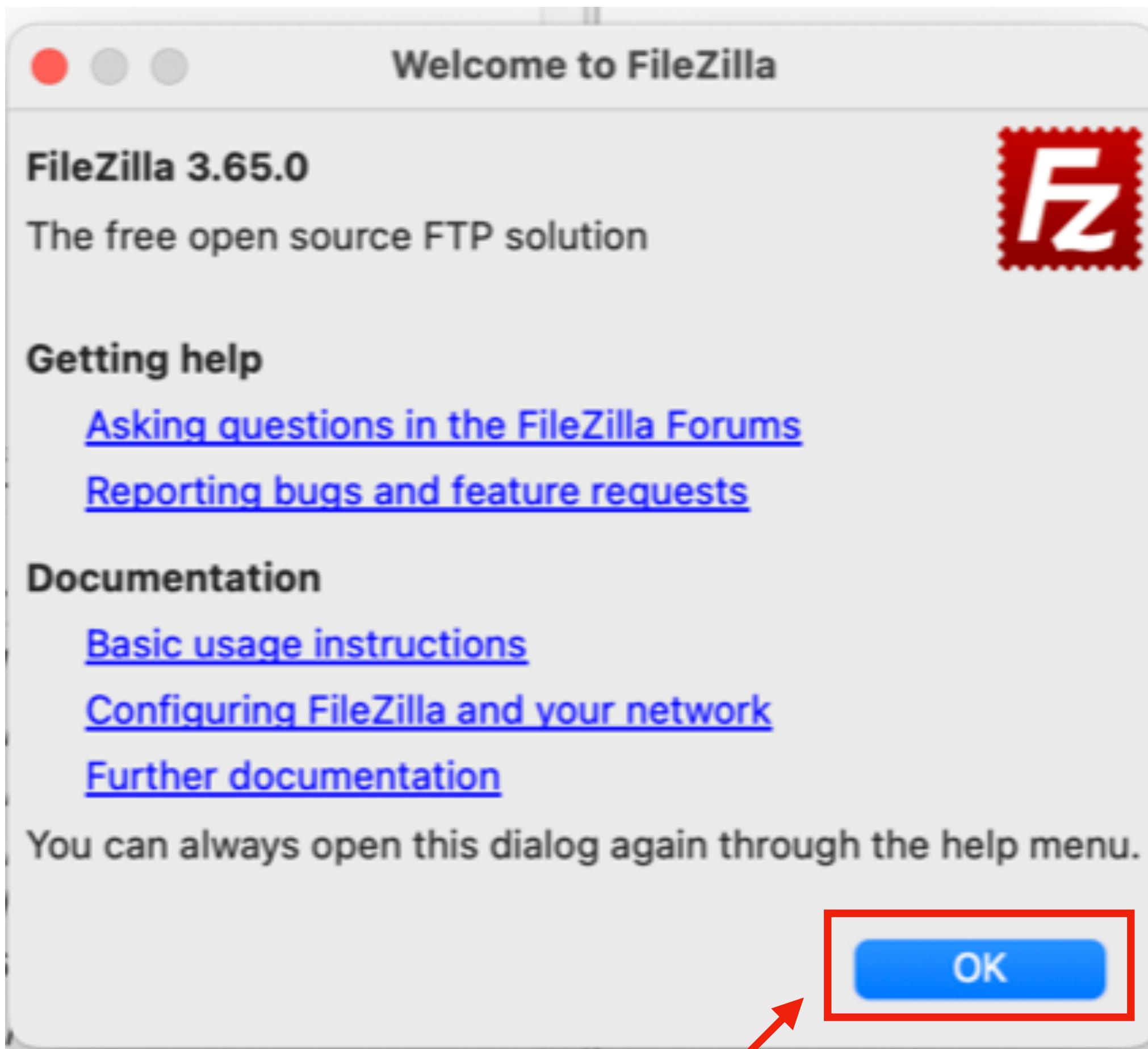
Step 12

If any other privacy pop-ups come up, just click “OK” or “Allow”

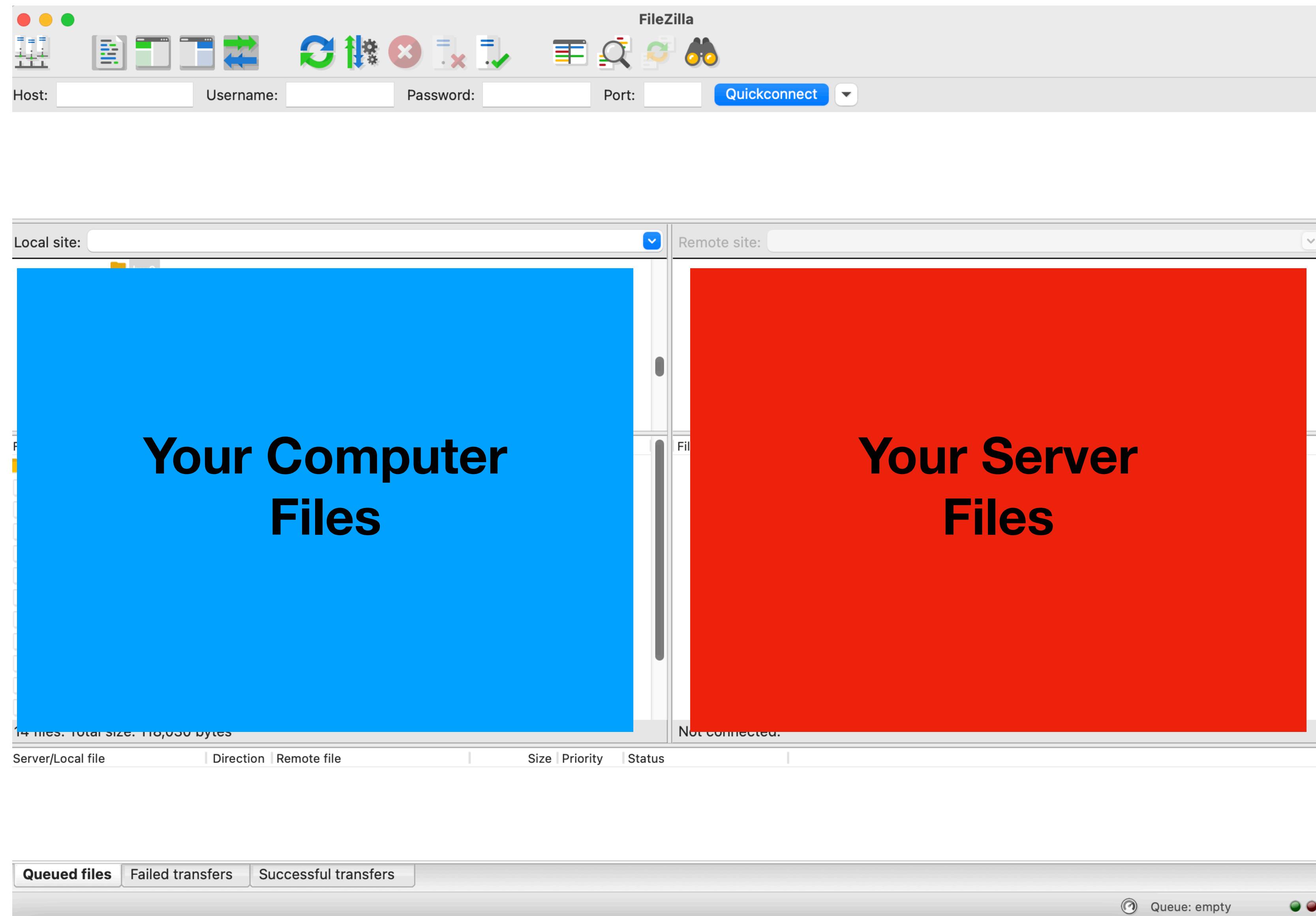


Step 13

FileZilla will then load. If you see this pop-up, hit “Ok”

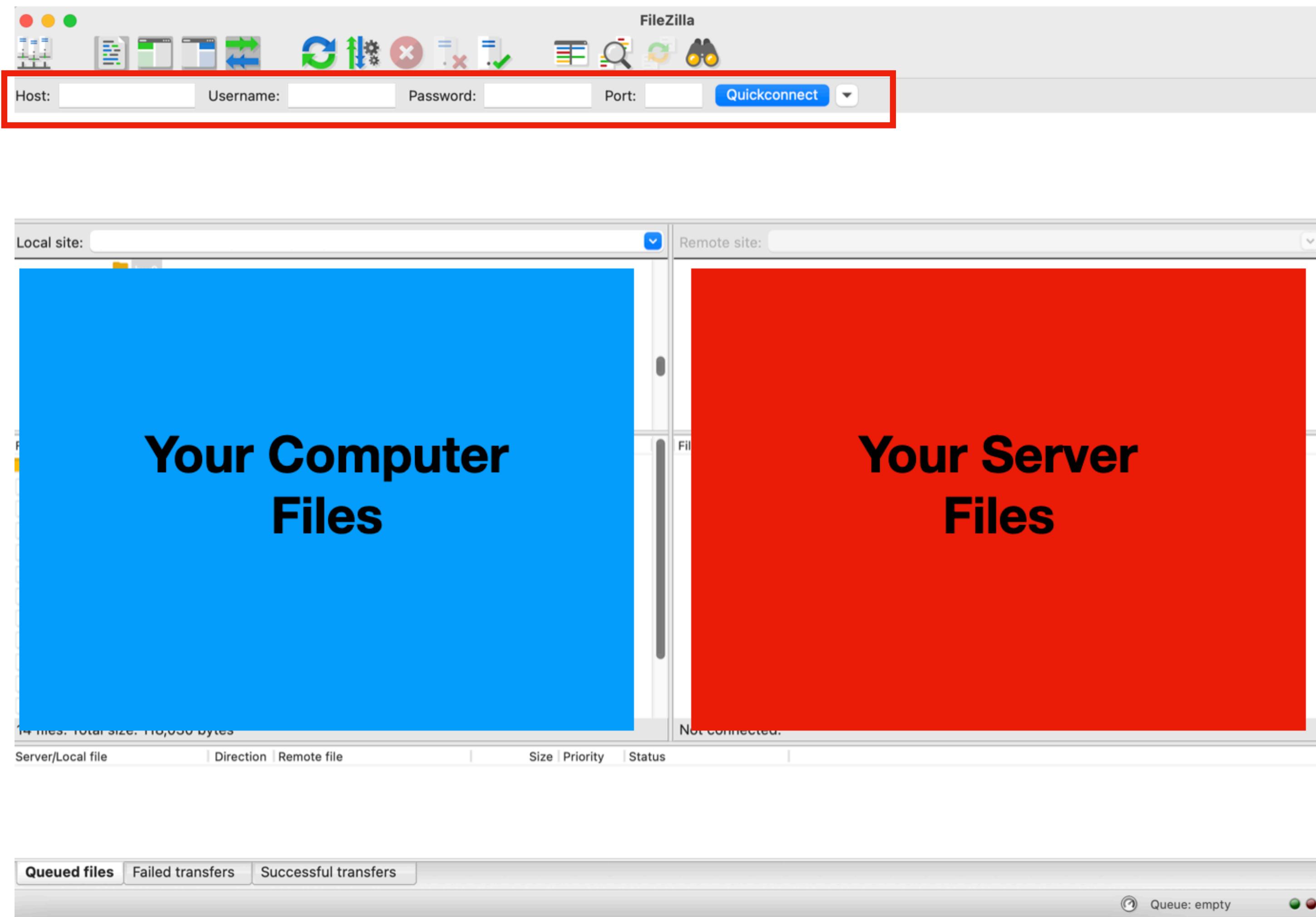


The left side of the screen is all of the files on your computer and the right side of the screen will show the files on the server (once you get connected to the server)



Step 14

To connect to the server, we'll now be looking at the top part of the screen

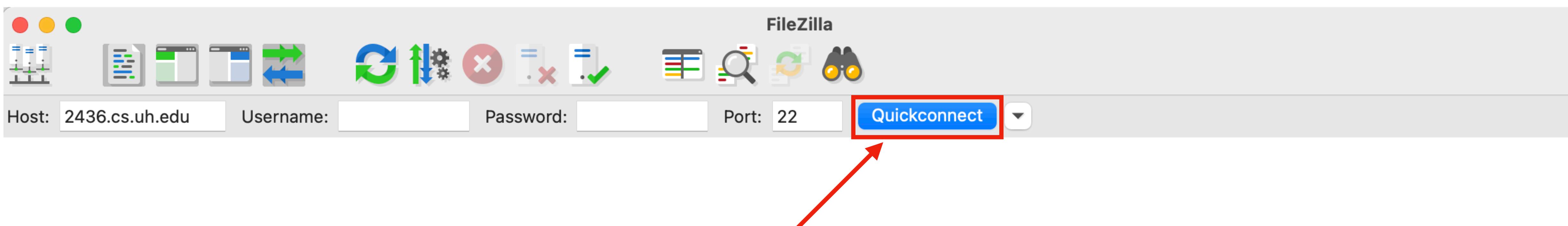


Step 15

To connect to the server enter the following in the fields at the top:

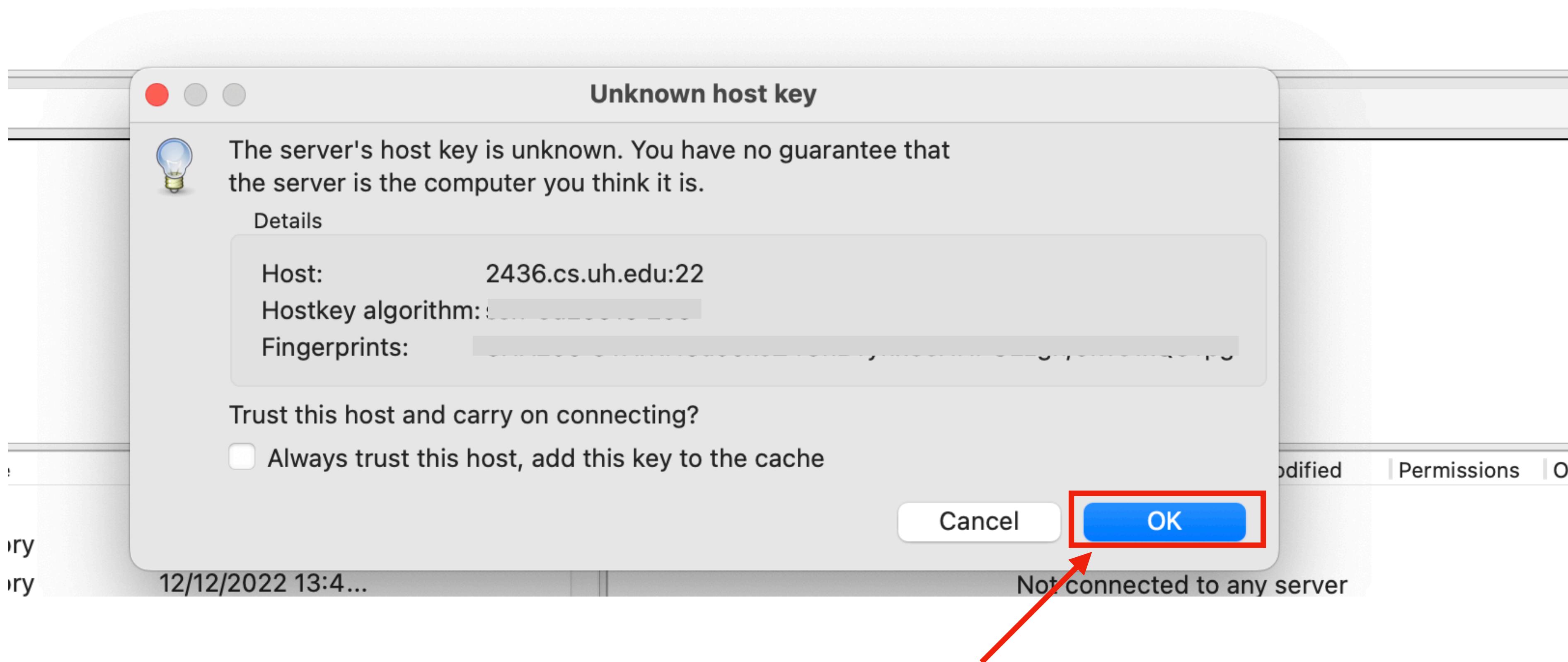
- Host: **2436.cs.uh.edu**
- Username: **your server username**
- Password: **your server password**
- Port: **22**

Then click “Quickconnect”



Step 16

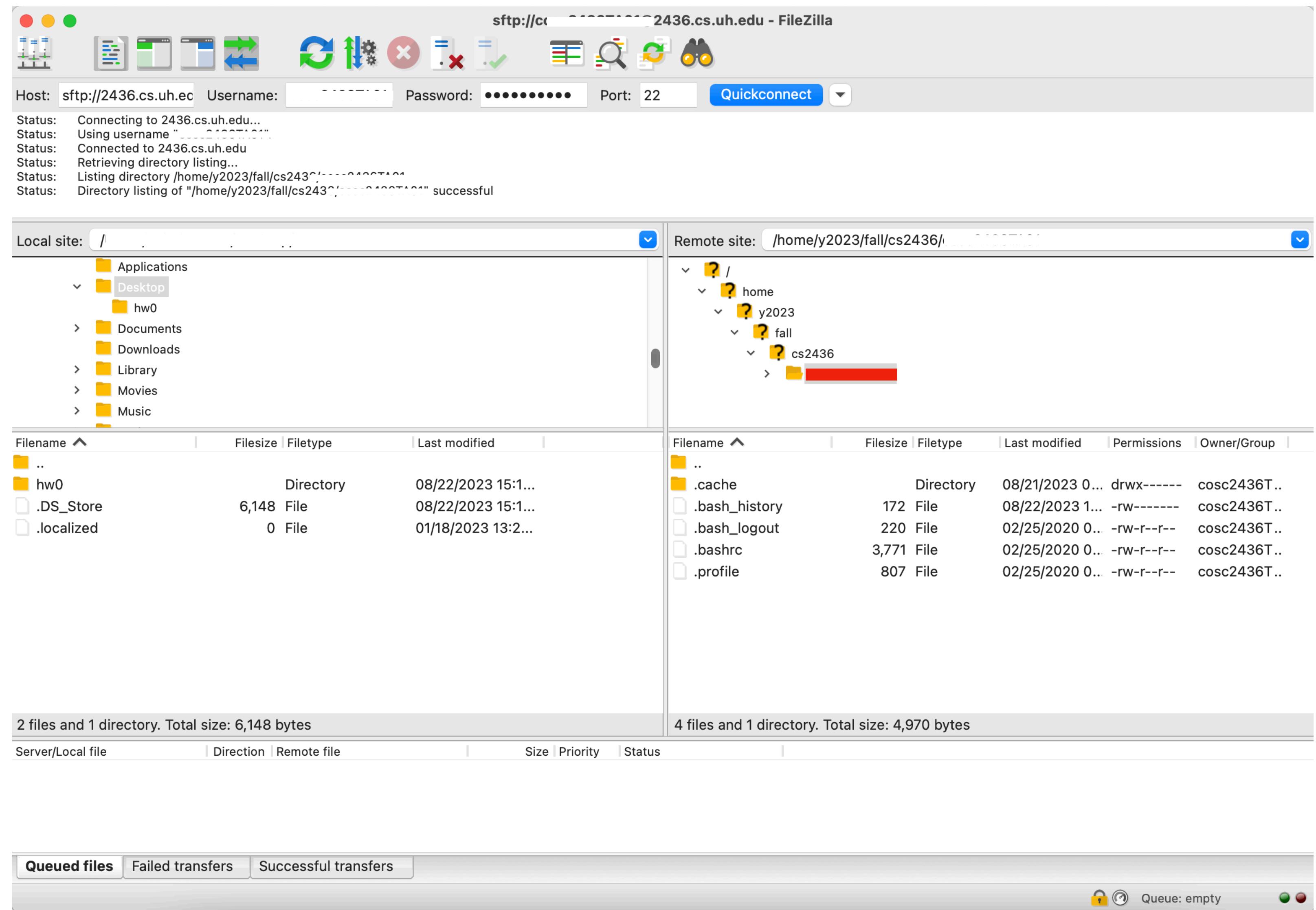
If something like this pops up, just hit “OK”



Step 17

We are now connected to the server and your screen should look something like this.

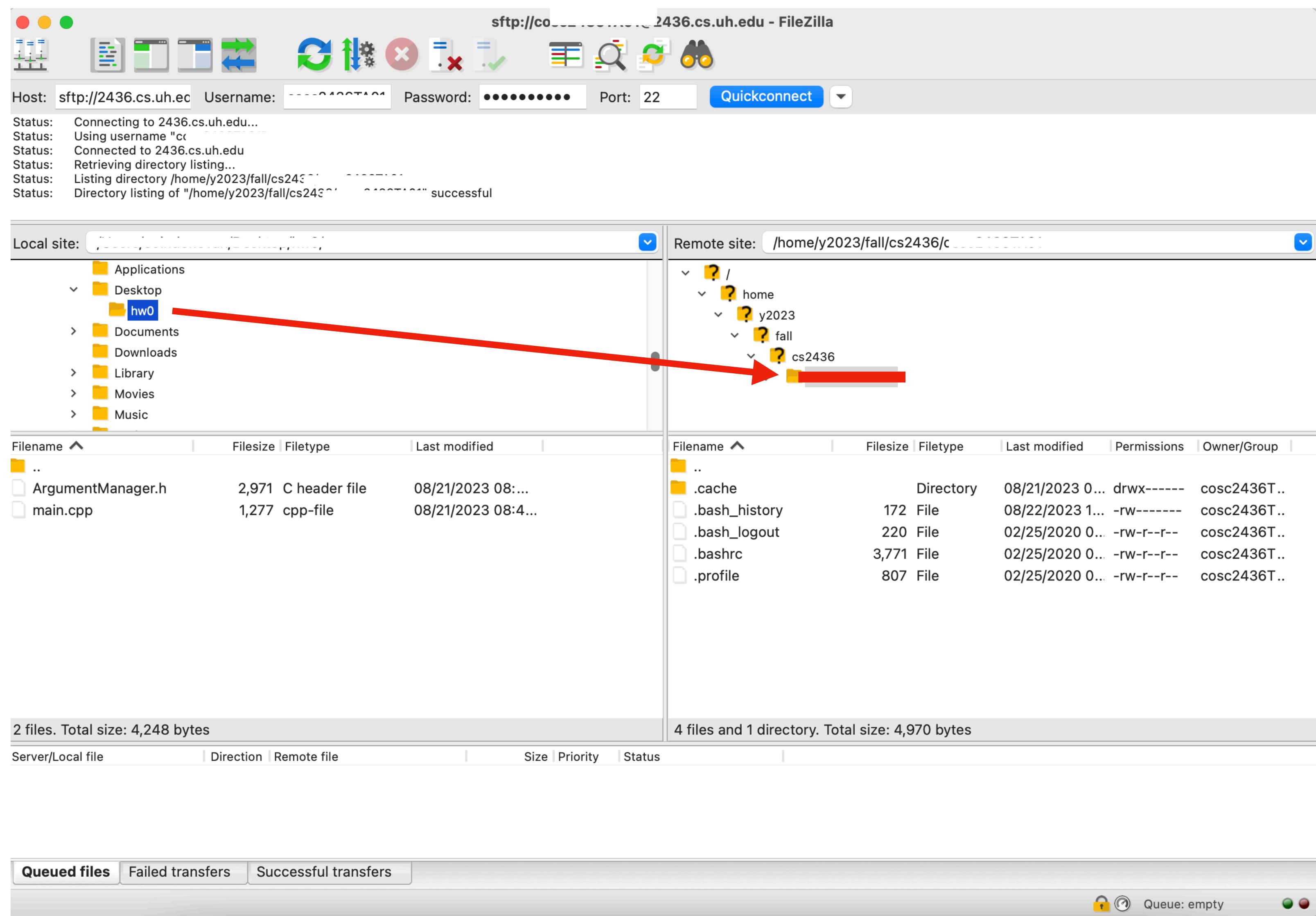
We can see the hw0 folder in our Desktop folder on our computer and we can see our server account on the right side (the red bar represents where your username will be).



Step 18

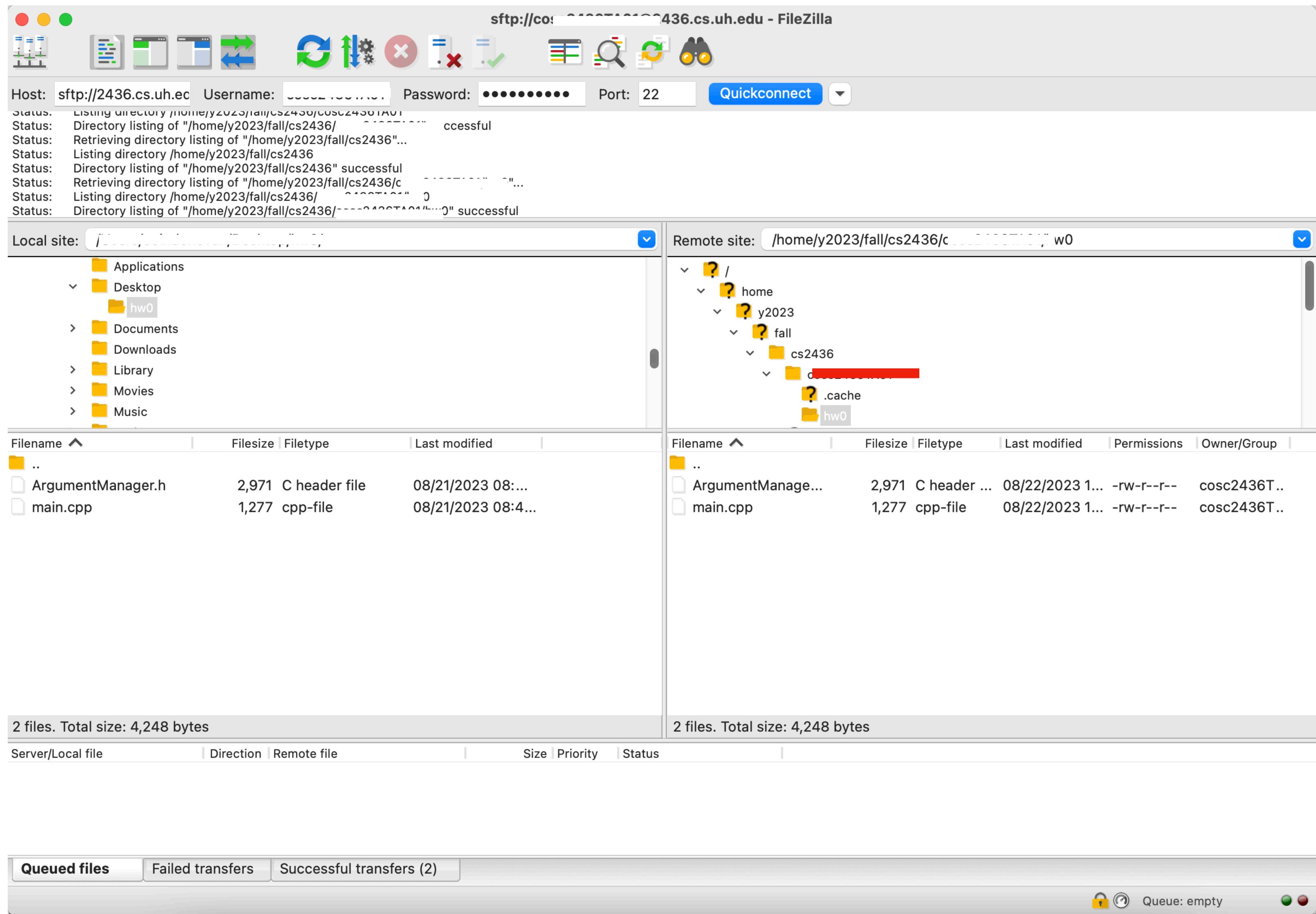
To transfer the hw0 folder over to the server all we will do is drag and drop it.

You want to drag the hw0 folder from the left side onto your server username (represented by the red bar in the picture).



We can now see that the hw0 folder has successfully been put under our root directory.

Next we will log into the server from the terminal to change the permissions for the hw0 folder.



Step 19

Open the Terminal application on MAC.



Step 20

Once you have it opened it should look something like this



Step 21

To log into the server we'll do: **ssh username@2436.cs.uh.edu**
then hit enter



****Note:** Throughout the rest of this, the red bar will represent where the server username.

Step 22

It will then ask for your password. If it asks for any permissions, just accept.



Step 23

Once you've enter your password, your screen should then look something like this.

```
System information as of Tue Aug 22 20:40:35 UTC 2023

System load: 2.0          Processes:            358
Usage of /: 59.5% of 242.28GB  Users logged in:    22
Memory usage: 24%          ]
Swap usage: 0%          

* Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.

https://ubuntu.com/aws/pro

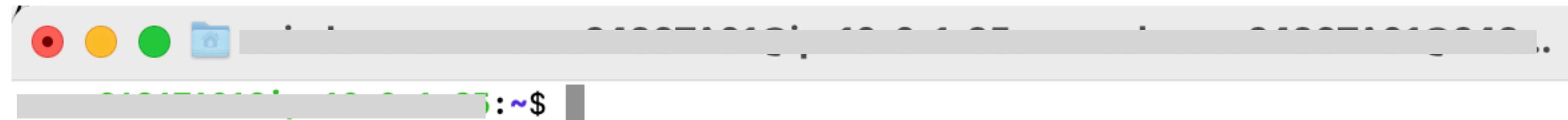
68 updates can be applied immediately.
5 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Tue Aug 22 15:46:17 2023 from 129.7.0.180
:~$
```

Step 24

You can enter the command “clear” to clear the screen.



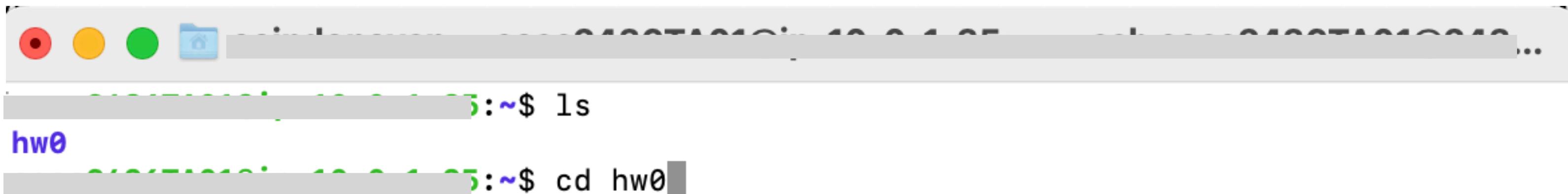
Step 25

We can then enter the command “ls” to see a list of the folder in our root directory. The root directory is what you are directed to when you log into the server.



Step 27

We can then enter the command “cd hw0” to go into the hw0 folder

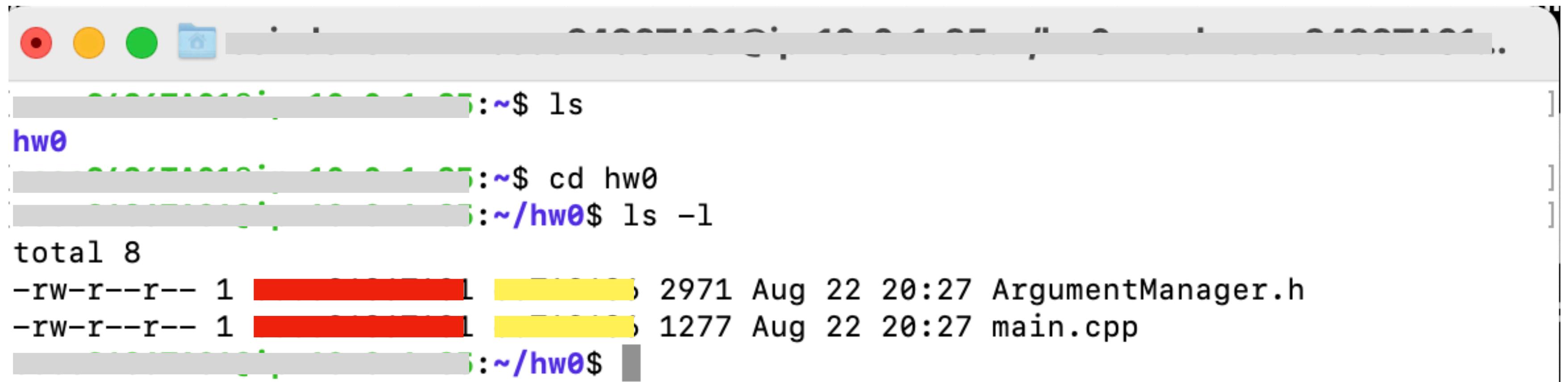


A screenshot of a macOS terminal window. The window title bar shows the name of the application. The main area of the window contains a terminal session. The user has run the command `ls`, which lists a single folder named `hw0`. The user then runs the command `cd hw0`, which changes the current working directory to `hw0`.

```
ls
hw0
cd hw0
```

Step 28

We can then enter the command “ls -l” to view the permissions of our files.



A screenshot of a terminal window titled "Terminal" with the path "/Users/username/Desktop/hw0". The window shows the following command history and output:

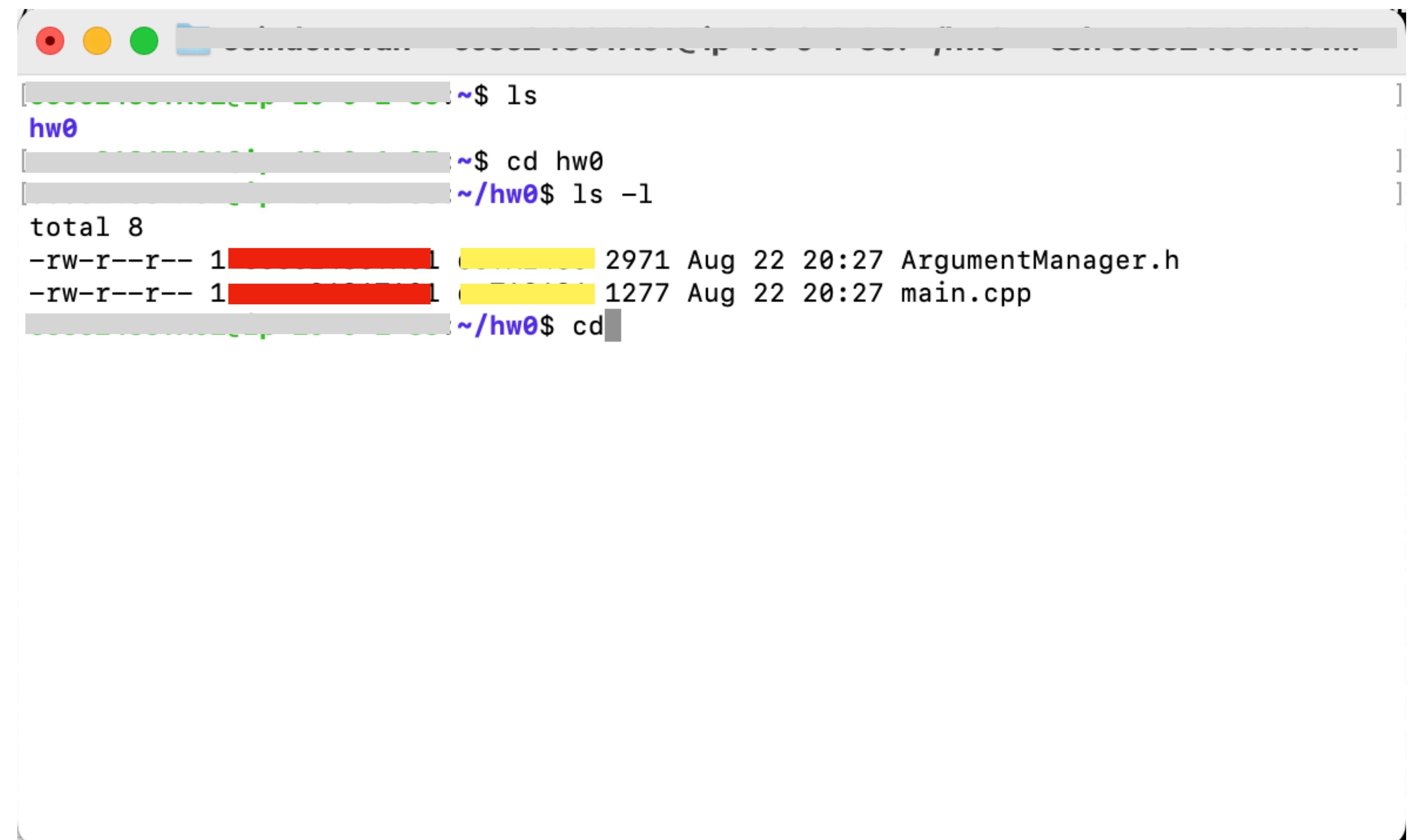
```
hw0
~/hw0$ ls
total 8
-rw-r--r-- 1 [REDACTED] [REDACTED] 2971 Aug 22 20:27 ArgumentManager.h
-rw-r--r-- 1 [REDACTED] [REDACTED] 1277 Aug 22 20:27 main.cpp
~/hw0$
```

The terminal uses color coding: red for user, yellow for group, and green for other. The directory path "hw0" is also highlighted in blue.

****Note:** Your permissions may look a bit different.
The yellow bar represents the directory

Step 29

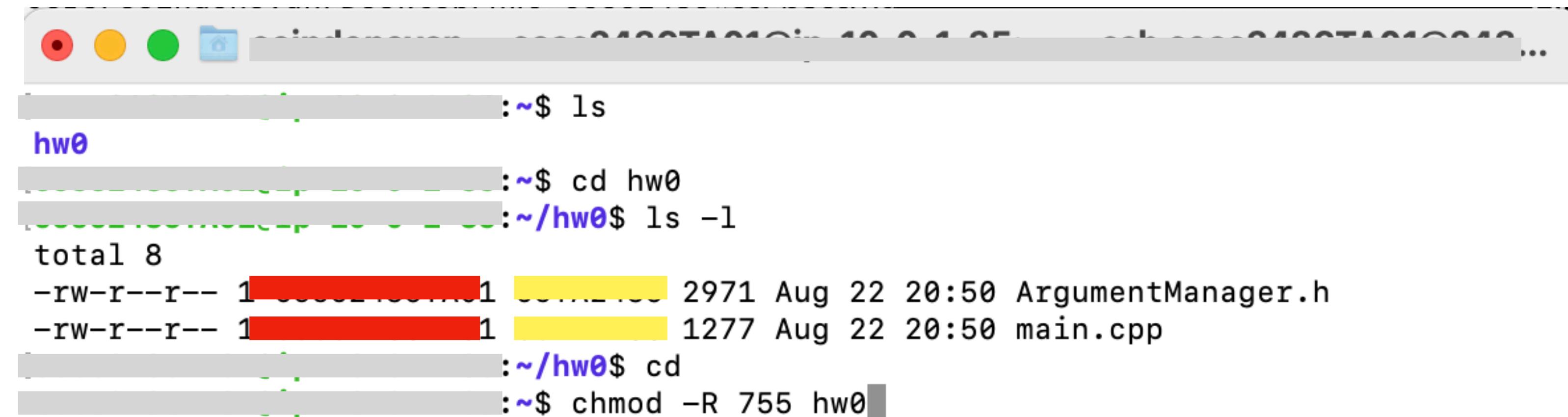
We can then enter the command “cd” to go back to the root directory



```
$ ls
hw0
$ cd hw0
~/hw0$ ls -l
total 8
-rw-r--r-- 1 2971 Aug 22 20:27 ArgumentManager.h
-rw-r--r-- 1 1277 Aug 22 20:27 main.cpp
~/hw0$ cd
```

Step 30

To change the permissions of our hw0 folder, enter the command:
chmod -R 755 folder_name



```
:~$ ls
hw0
:~$ cd hw0
:~/hw0$ ls -l
total 8
-rw-r--r-- 1 2971 Aug 22 20:50 ArgumentManager.h
-rw-r--r-- 1 1277 Aug 22 20:50 main.cpp
:~/hw0$ cd ..
:~$ chmod -R 755 hw0
```

When we check the permissions of our hw0 folder again, we see that we have the right permissions.

```
[...]
:~$ ls
hw0
[...]
:~$ cd hw0
[...]
:~/hw0$ ls -l
total 8
-rw-r--r-- 1 [REDACTED] [REDACTED] 2971 Aug 22 20:50 ArgumentManager.h
-rw-r--r-- 1 [REDACTED] [REDACTED] 1277 Aug 22 20:50 main.cpp
[...]
:~/hw0$ cd
[...]
:~$ chmod -R 755 hw0
[...]
:~$ cd hw0
[...]
:~/hw0$ ls -l
total 8
-rwxr-xr-x 1 [REDACTED] [REDACTED] 2971 Aug 22 20:50 ArgumentManager.h
-rwxr-xr-x 1 [REDACTED] [REDACTED] 1277 Aug 22 20:50 main.cpp
[...]
:~/hw0$
```