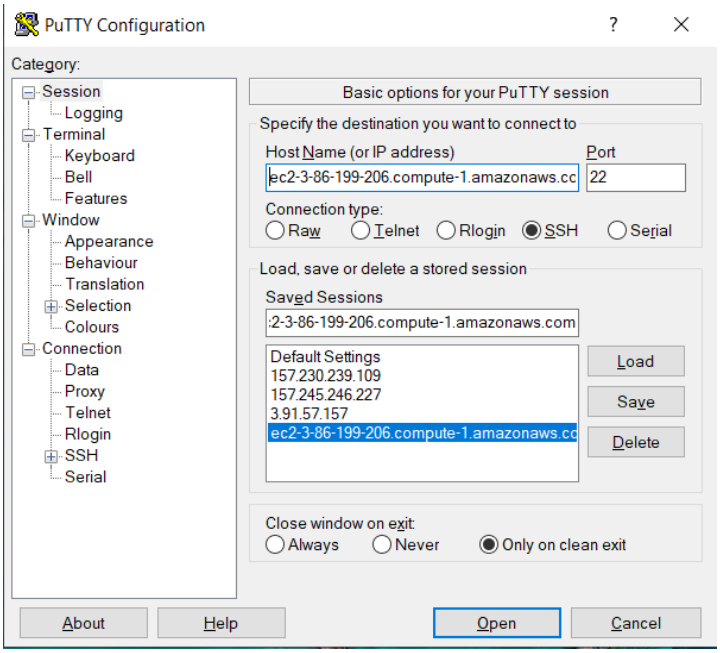
How to Connect to the AWS Server Successfully (hopefully)

Note: I use PuTTY and FileZilla to connect to the AWS EC2 Instance so that is the process I am going to be describing. I think it would be best to use these tools but considering I don't know how often everyone will be accessing the server aside from occasional file uploads, if you have other software that you used to connect to Eustis for instance, I do not know the process of setting those up correctly. If you are unable to connect successfully and are having problems using some other software let me know I can try and find a solution.

I also checked and made sure that I could connect to the server through both PuTTY and FileZilla with each individual key I made for everyone so hopefully if you follow these steps you will not have any issues.

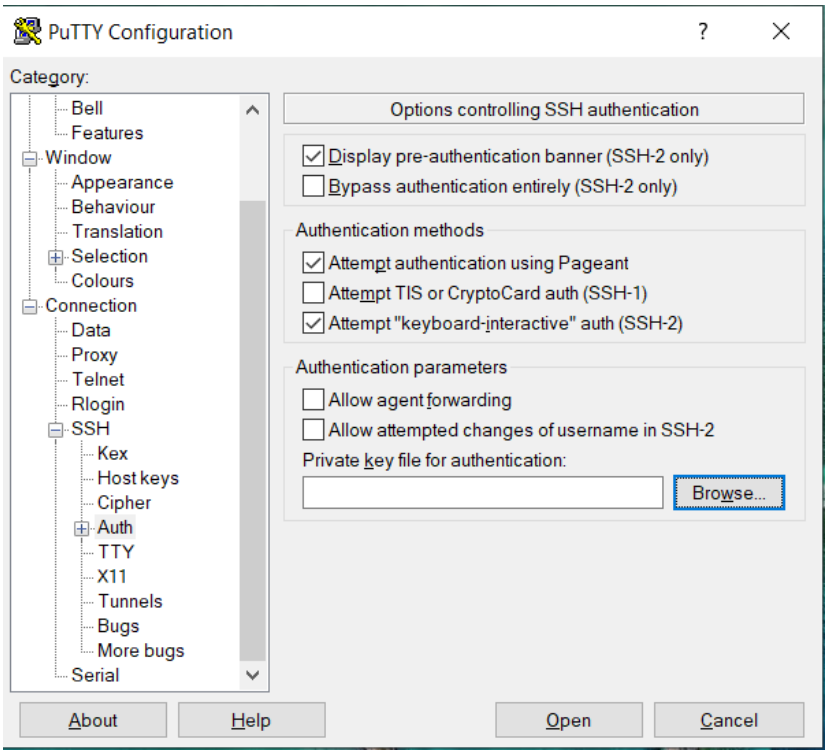
Connecting Through PuTTY

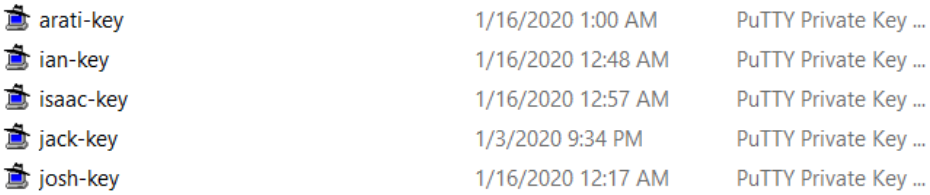
1) Launch PuTTY. For the 'Host Name' you must enter in the IP address of the AWS EC2 Instance. Right now, it is: ec2-3-86-199-206.compute-1.amazonaws.com but anytime that the instance is stopped and started again, the IP address changed. If I stop the instance, I'll make sure to tell everyone what the new IP address is. For 'Port' enter 22 and for 'Connection Type' select SSH. (I would recommend saving the AWS IP address in the 'Saved Sessions' box so that you do not have to go back and check the Discord for the current IP address)



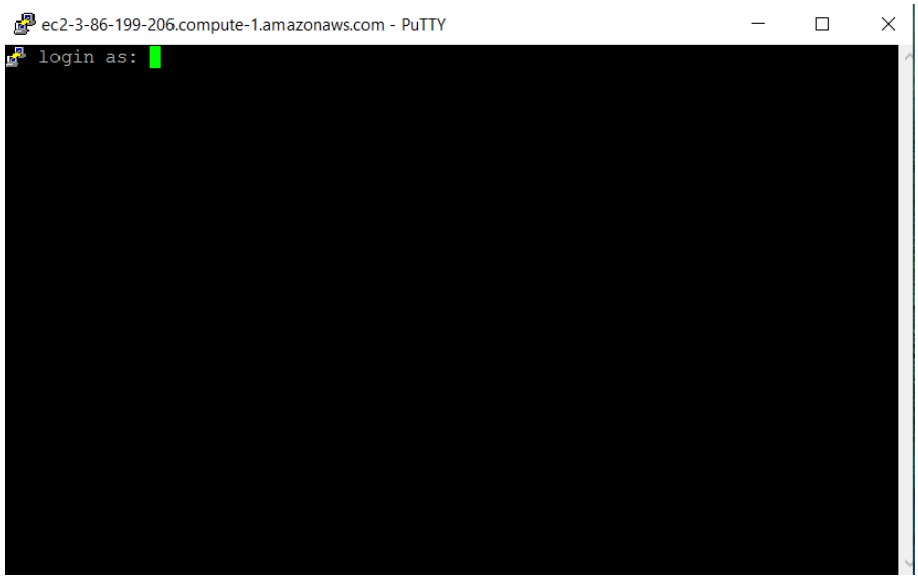
2) On the left panel, click on 'SSH'. Then click on 'Auth'. You should see on the right hand side a prompt to enter in a private key for authentication. Click 'Browse' and then find

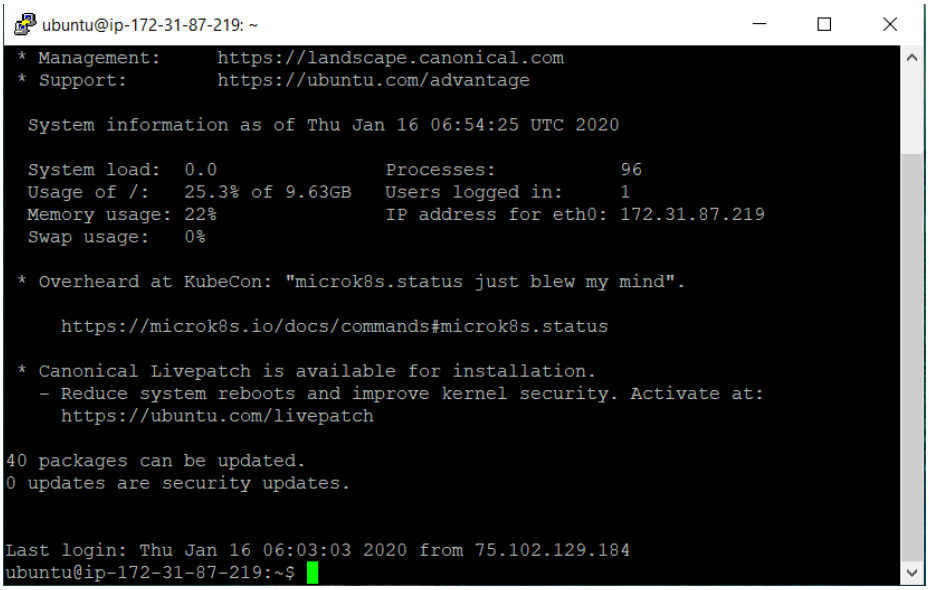
and open the .ppk file that I sent you (the file is called yourname-key). Every time you want to connect to the server through PuTTY, you must select your private key.





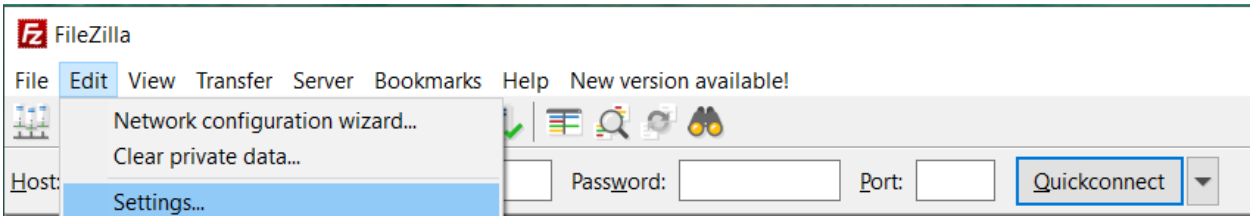
3) Click ‘Open’ on the bottom right and then a terminal should open and prompt you to ‘login as:’. Your login is your name; there is no password for anyone’s account. After entering your name, you should be connected to the AWS server.



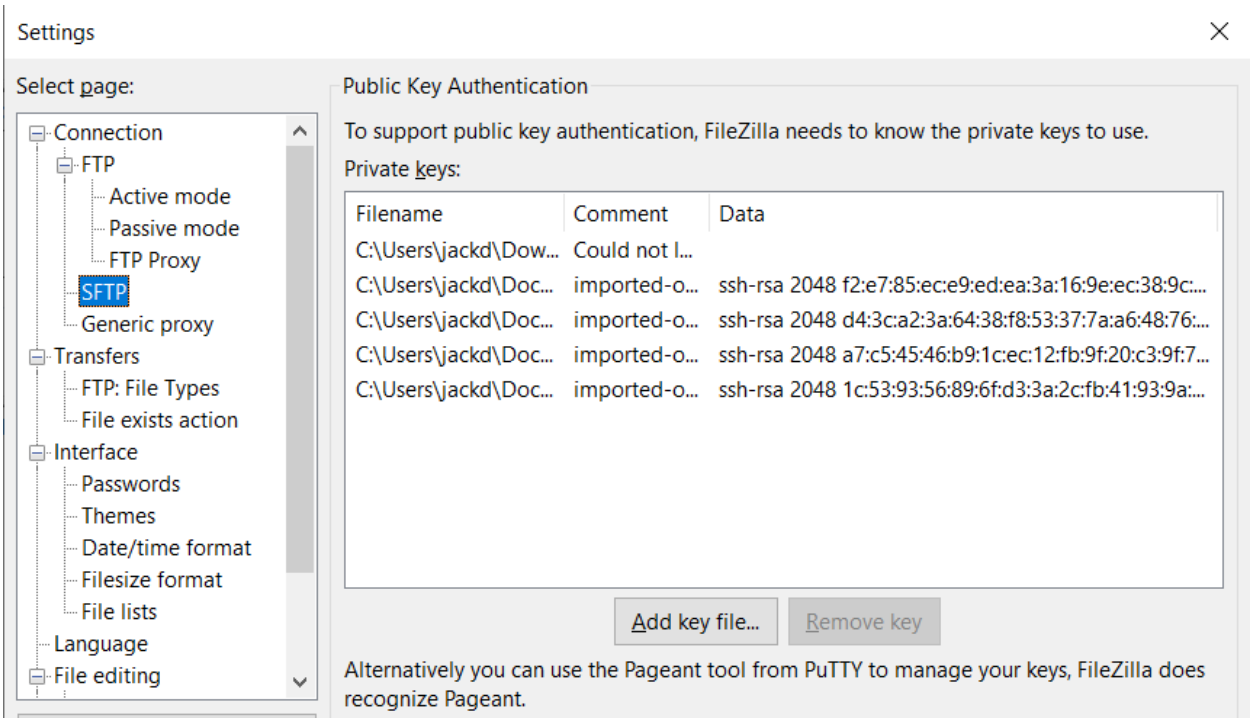


Connecting Through FileZilla

1) To connect to the server through FileZilla, first click on ‘Edit’ at the top left of the window then ‘Settings’.

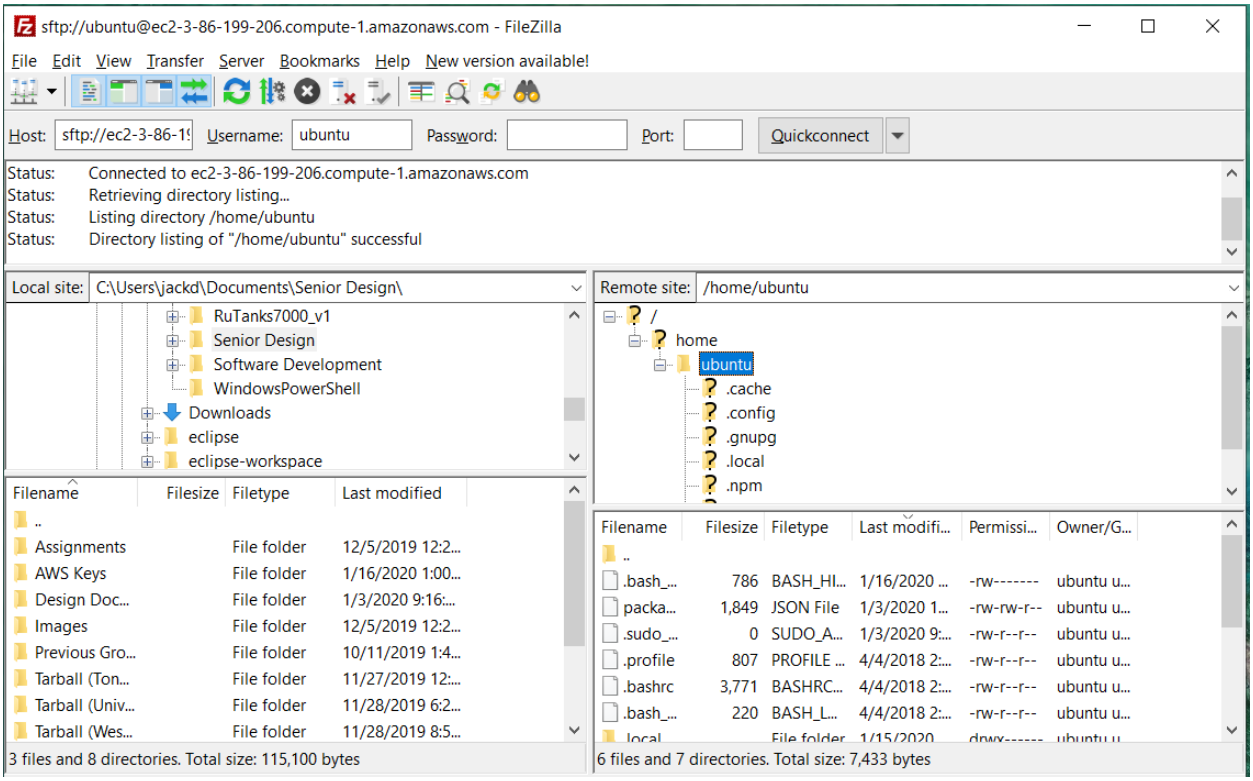


2) A window should appear and on the left side a panel should be on your screen with the word ‘Connection’ at the top. Expand ‘Connection’ if it is already not then, expand ‘FTP’ if it is already not. Under the ‘FTP’ branch should be ‘SFTP’. Click that and then on the right side a box prompting for ‘Public Key Authentication’ should appear. Click on ‘Add key file’ and then select the .pem file I sent you (this file is also called yourname-key) then click ‘Ok’. Note that this is not the same file as the one you will use to connect through PuTTY. The .pem file is the public key that FileZilla needs whereas the .pem is the private key that PuTTY needs.



Your screen should look something like this after adding your key (I have multiple files under there as I was checking that I could connect using the keys you will be using).

3) After adding your key, at the top of the FileZilla window enter the AWS IP address in the ‘Host’ box (ec2-3-86-199-206.compute-1.amazonaws.com). For ‘Username’ enter in your name. The ‘Password’ box will be blank. The ‘Port’ box can also be blank for now as all the ports are currently open. I will try to change this in the future but if you cannot connect without entering a port number enter in 22. Click ‘QuickConnect’ and then you should be connected to the server.


sftp://ubuntu@ec2-3-86-199-206.compute-1.amazonaws.com - FileZilla
File Edit View Transfer Server Bookmarks Help New version available!
Host: sftp://ec2-3-86-19 Username: ubuntu Password: Port: Quickconnect
Status: Connected to ec2-3-86-199-206.compute-1.amazonaws.com
Status: Retrieving directory listing...
Status: Listing directory /home/ubuntu
Status: Directory listing of "/home/ubuntu" successful
Local site: C:\Users\jackd\Documents\Senior Design\
RuTanks7000_v1
Senior Design
Software Development
WindowsPowerShell
Downloads
eclipse
eclipse-workspace
Filename Filesize Filetype Last modified
.. Assignments File folder 12/5/2019 12:2...
AWS Keys File folder 1/16/2020 1:00...
Design Doc... File folder 1/3/2020 9:16:...
Images File folder 12/5/2019 12:2...
Previous Gro... File folder 10/11/2019 1:4...
Tarball (Ton... File folder 11/27/2019 12:...
Tarball (Univ... File folder 11/28/2019 6:2...
Tarball (Wes... File folder 11/28/2019 8:5...
3 files and 8 directories. Total size: 115,100 bytes
Remote site: /home/ubuntu
/
home
ubuntu
.cache
.config
.gnupg
.local
.npm
Filename Filesize Filetype Last modifi... Permissi... Owner/G...
.. .bash_... 786 BASH_HI... 1/16/2020 ... -rw------- ubuntu u...
packa... 1,849 JSON File 1/3/2020 1... -rw-rw-r-- ubuntu u...
.sudo_... 0 SUDO_A... 1/3/2020 9:... -rw-r--r-- ubuntu u...
.profile 807 PROFILE ... 4/4/2018 2:... -rw-r--r-- ubuntu u...
.bashrc 3,771 BASHRC... 4/4/2018 2:... -rw-r--r-- ubuntu u...
.bash_... 220 BASH_L... 4/4/2018 2:... -rw-r--r-- ubuntu u...
6 files and 7 directories. Total size: 7,433 bytes