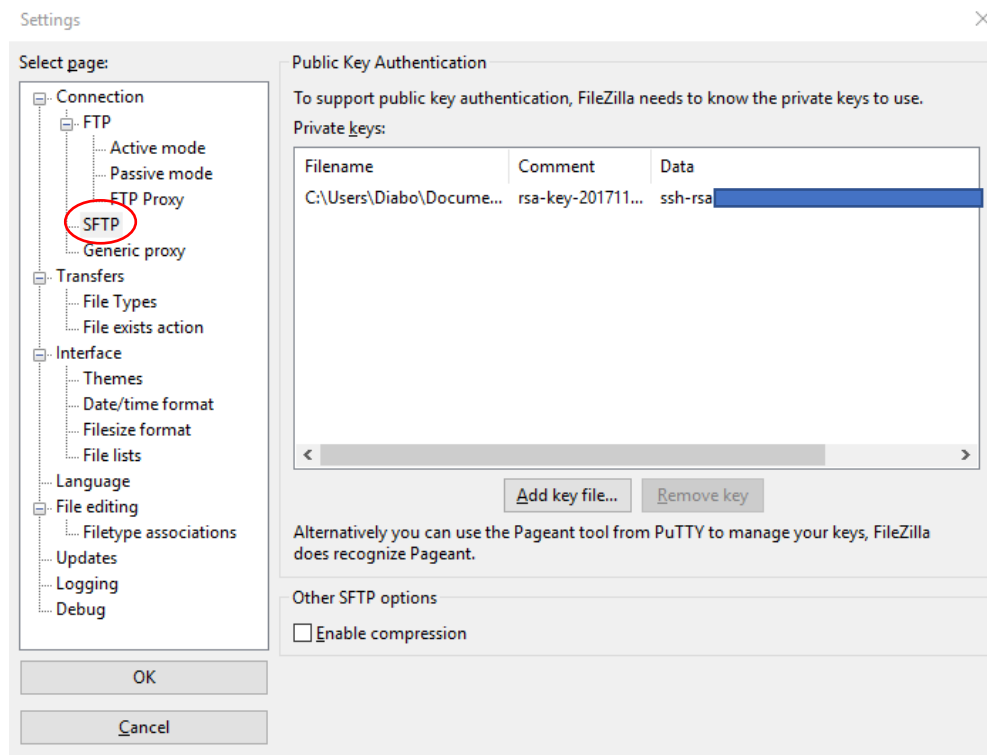The following is a guide for setting up a secure file transfer with a cluster. These instructions are customized for the UCSD CMM262 class, they were adapted from the more general set of instructions found here: https://www.digitalocean.com/community/tutorials/how-to-use-filezilla-to-transfer-and-manage-files-securely-on-your-vps

On a PC:

1. Download FileZilla for your OS (https://filezilla-project.org/)
2. Under **Edit -> Settings** go to the SFTP section:

3. Add your private key using [Add key file..]
4. Back from the home screen click on **File -> Site Manager** and add a 'New Site' (name it tscc_host or something)
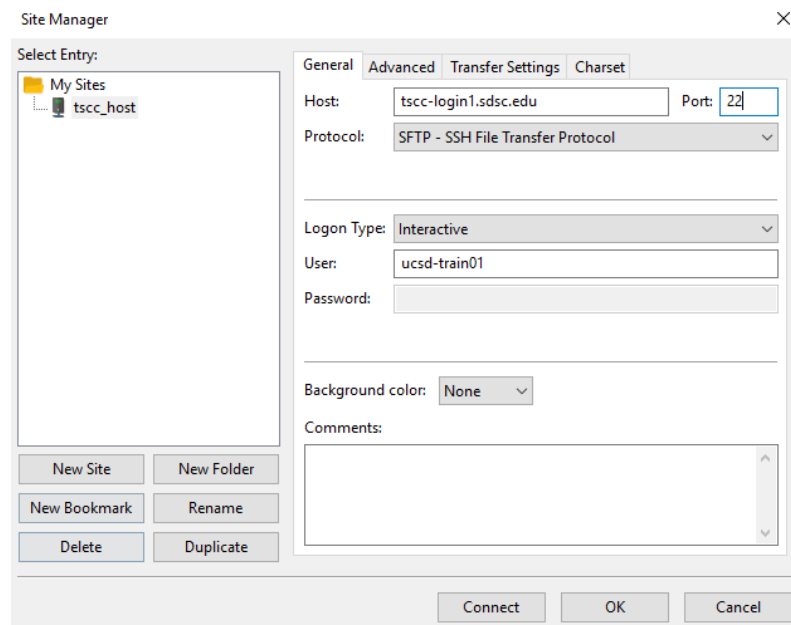
5. Under 'General' add the cluster IP which you've used so far to log in, switch the protocol type to 'SFTP' and use 'Port' 22.
6. Logon Type should be 'interactive' and User should be the account we gave you (ucsd-train##)
7. You should be prompted for you password when connecting and will then see your own directory on the cluster. Simply drag and drop the files you want to move back and forth

On a Mac:

If for some reason you are not using ssh-agent and on a Mac, don't worry about ssh key conversion. Just import your key via Settings and then use Normal mode in your site connection definition. The imported key will get used.

The following instructions assume you have a working SSH configuration which allows you to ssh to the same host without a password. They are adapted from a thread on superuser.com and summarized here so you don't have to search through a lot of dead ends:

1. In FileZilla->Settings.. select Connection->SFTP
2. Press the Add key file... button
3. Press Command-Shift-G to bring up a path selection window and type "~/.ssh"
4. Select the "id_rsa" key file and click Open (this imports the key)
5. Click OK to close the Settings dialog
6. Open File->Site Manager...
7. Select the site with which you want to use the key
8. Choose Protocol "SFTP" and select Logon Type "Normal". Don't worry about a password if you key file doesn't have a password
9. Click Connect and you'll see your files