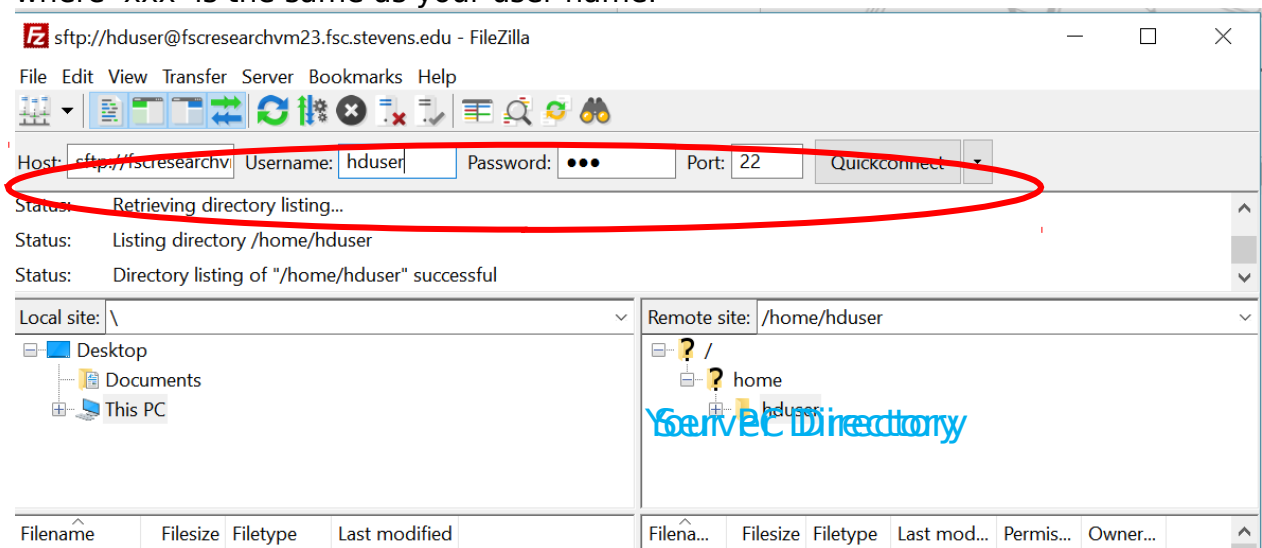


For Windows & Mac user:

The objective is to upload your python code (.py file) to the server and execute the file. If you already have knowledge on file transfer, you can jump to Step 3 &4.

1. Compile python script using your local computer.
2. Transfer python file (.py) into HADOOP server (Host: **fscresearchvm23.fsc.stevens.edu**) using FileZilla.
 - 2.1. Download and install FileZilla (windows: <https://filezilla-project.org/download.php?platform=win64>, Mac: <https://filezilla-project.org/download.php?platform=osx>)
 - 2.2. Open FileZilla. Fill the information (Host, Username, Password), Port is 22. Click Quickconnect button. (see red circle)
 - 2.3. You are able to see successful information on status panel, and see the files and directories of your local site and remote site. (see blue)
 - 2.4. The listed files are files in the selected directory. For example, in the screenshot, I selected the personal folder called 'hduser'. All files inside hduser folder are listed in the bottom.
 - 2.5. You need to upload your python file into the user's personal folder /home/xxx where 'xxx' is the same as your user name.



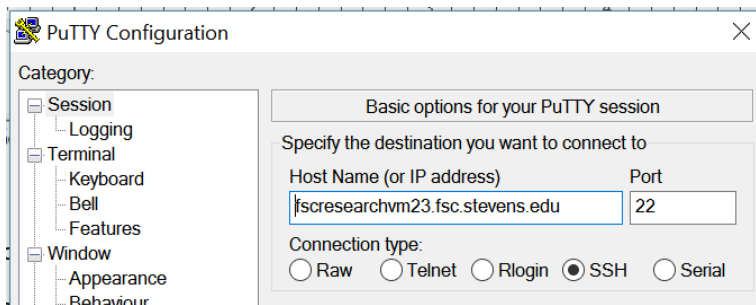
Local files listed here

3. Use command to execute python file.

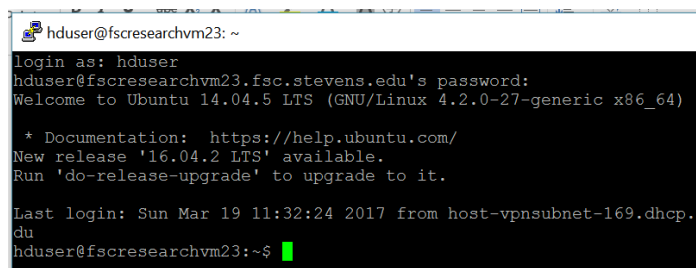
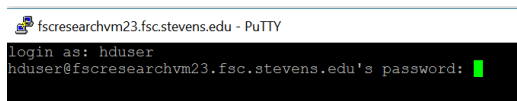
For Windows user:

- 3.1. Download putty (<https://the.earth.li/~sgtatham/putty/latest/w64/putty.exe>)

3.2. Put Host Name and click Open button on the bottom.



3.3. You need to put user name and password. (Note: When you put password, there is no displayed character. After you typing the password, hit Enter, and it will login for you.)



For mac user:

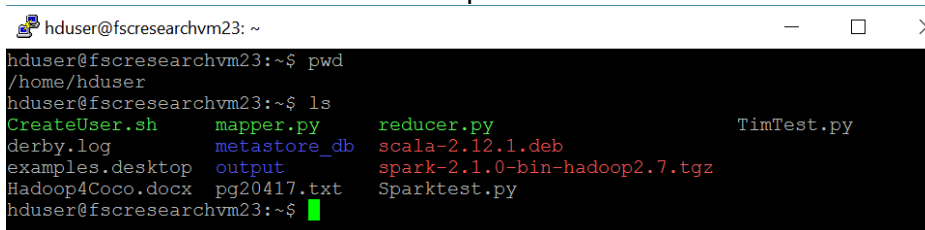
3.1. Open Terminal.

3.2. Type ssh [xxx@fscresearchvm23.fsc.stevens.edu](https://fscresearchvm23.fsc.stevens.edu), click Enter.

3.3. Input password.

The following 2 commands are the same for both Windows & Mac users

3.4. **pwd** command will show you current directory. By default, the directory should be your personal folder, where is the place you uploaded your file in previous step. **ls** command will show you a list of files under current directory. You should be able to see the uploaded file here.



For all users to execute file:

4. Execute python file using spark.

4.1. Type command `cd $SPARK_HOME`.

4.2. Type command `./bin/spark-submit --master spark://fscresearchvm23.fsc.stevens.edu:7077 /path/filename.py`