The following steps allow a user to connect a Windows machine to a remote server and move files back and forth between the two stations. For this course, we will mostly connect to servers such as odd0x.cs.ohio.edu. The letter <u>x</u> may be 1, 3, 7, etc. But we will simply use odd01.cs.ohio.edu in this tutorial.

To interact with a server, several tools may be used as explained at <a href="http://oucsace.cs.ohio.edu/~waustad/remote.html">http://oucsace.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://winsce.cs.ohio.edu/~waustad/remote.html">Putty and Winsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://winsce.cs.ohio.edu/~waustad/remote.html">Putty and Winsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://winsce.cs.ohio.edu/~waustad/remote.html">waustad/remote.html</a>. But we will focus on how to use <a href="http://winsce.cs.ohio.edu/~waustad/remote.html">winsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://winsce.cs.ohio.edu/~waustad/remote.html">wunsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://winsce.cs.ohio.edu/~waustad/remote.html">wunsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://waustad/remote.html">wunsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://waustad/remote.html">wunsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://waustad/remote.html">wunsce.cs.ohio.edu/~waustad/remote.html</a>. But we will focus on how to use <a href="http://waustad/remote.html">wunsce</a> a command line interface (CLI) where a user can remotely type and execute Linux commands on from a locale computer, WinSCP offers a nice graphical user interface (GUI) that allows a user to move files around.

To get started, we need:

- The login information (i.e. username and password) which will be provided on the first day of Lab session. For now, let's refer to your login as **username** and your password as **password**.
- The server host name. We will use **odd01.cs.ohio.edu**
- Putty.exe, which can be downloaded at

http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html. The downloaded program shows as an icon that pictures two stations connected via a yellow link. You can run Putty by simply double clicking on the icon.

WinSCP, which can be found at <u>https://winscp.net/eng/download.php</u>. Just click on "<u>installation package</u>" to download the program file.

## A. Connect with Putty

- 1. Double click on the Putty program icon. This will open a GUI.
- 2. Under "Host Name (or IP address)", enter the host name

odd01.cs.ohio.edu. (Please do not include the last dot(.)). You may

also use the IP address instead of the Host Name.

- 3. Set the "**Port**" to 22.
- 4. Under "Connection type", chose SSH if not selected by default. Your GUI

should look like this

Category:          Session       Basic options for your PuTTY session         Logging       Specify the destination you want to connect to         Keyboard       Host Name (or IP address)         Bell       Port         Features       Odd01.cs.ohio.edu         Window       Raw         Appearance       Behaviour         Selection       Connection         Colours       Default Settings	🕵 PuTTY Configuration	×	
Session       Basic options for your PuTTY session         Specify the destination you want to connect to         Keyboard         Bell         Features         Window         Appearance         Behaviour         Translation         Selection         Colours         Default Settings	Category:		
Connection type:	<ul> <li>Session</li> <li>Logging</li> <li>Terminal</li> <li>Keyboard</li> <li>Bell</li> </ul>	Basic options for your PuTTY session         Specify the destination you want to connect to         Host Name (or IP address)         Odd01.cs.ohio.edu	
Default Settings	Features     Window     Appearance     Behaviour     Translation     Selection     Colours	Connection type: O Raw O Telnet O Rlogin O SSH O Serial Load, save or delete a stored session Saved Sessions	
	Connection → Data → Proxy → Telnet → Rlogin ⊕ · SSH → Serial	Default Settings Load Save Delete	
Close window on exit: Always Never Only on clean exit		Close window on exit: Always Never Only on clean exit	

## 5. Click "Open"

## 6. You should now get a CLI which looks like this



- 7. For login as: Enter your username and hit "enter" from the keyboard.
- 8. Next, for **password**, enter your password and hit "enter" from the keyboard. Remember that for security purpose, you will not see any activity on the CLI while typing your password.

## B.Connect with WinSCP

- 1. Install the WinSCP program
- 2. Double click on the program icon
- 3. Two overlapping GUIs will open as shown here



- 4. Under "Host Name (or IP address)", enter the host name odd01.cs.ohio.edu.
- 5. Set the "**Port number**" to 22.
- 6. Use your login information the user name and Password.
- 7. Your smaller GUI should look like this

🌆 Login		- 🗆 ×
Prev Site	Session <u>F</u> ile protocol: SFTP ~	
	Host name: odd01.cs.ohio.edu	Po <u>r</u> t number:
	User name:	assword:
	Save	Advanced
Tools 🔻 Manage 🔻	🔁 Login 🔻	Close Help

8. Click login to start your connection.

9. You should now see only one GUI with two partitions like this

퉒 Abdoulaye - asaadou@odd01.cs.ohio.edu - WinSCP			-		×
Local Mark Files Commands Session Options Remote Help					
🖶 🔁 🔁 Synchronize 🔲 🐙 🔝 🍈 🕼 🖓 Queue 🗸 🛛 Transfer Settings	Default 🔹 🛃 🗸				
💂 asaadou@odd01.cs.ohio.edu 📫 New Session					
🟪 C: Local Disk 🔹 🗧 🚰 🔽 🐟 🔹 🔶 🐑	📕 asaadou 🔹 🖡	🖁 🗑 🔶 - 🔶 - 🖻 🗖 🏠 🏖	J 🔯 Find Files	2.	
📑 Upload 🗸 📝 Edit 🤟 🗶 🛃 🕞 Properties 📑 🕞 📑 🕂	🛛 📄 Download 👻 📝	Edit 👻 🖌 🕞 Properties 📑 🕞	+ - V		
C:\Users\Abdoulaye	/home/asaadou				
Name Size Type Changed	Name	Size Changed	Rights	Owner	^
Parent directory 1/12/2017 2:51:58 AM	<b>.</b>	1/15/2017 10:34:10 PM	rwxr-xr-x	root	
E Contacts File folder 1/11/2017 5:00:20 PM	cs2400	8/30/2016 10:56:05 AM	1 rwxr-xr-x	asaadou	6
Desktop System Folder 1/15/2017 10:05:41 PM	/ Desktop	8/30/2016 10:32:22 AN	rwxr-xr-x	asaadou	1
Documents System Folder 1/11/2017 5:00:21 PM	Documents	8/30/2016 10:07:04 AM	rwxr-xr-x	asaadou	1
Downloads System Folder 1/15/2017 10:05:20 PM	A Downloads	10/21/2016 4:13:13 PM	rwxr-xr-x	asaadou	1
Dropbox File folder 1/15/2017 8:06:15 PM	HW5	11/2/2016 9:53:42 AM	rwxr-xr-x	asaadou	
★Favorites File folder 1/11/2017 6:07:48 PM	HW7	11/25/2016 12:37:13 AI	M rwxr-xr-x	asaadou	
Links File folder 1/11/2017 5:00:21 PM	HW8	12/5/2016 2:41:39 PM	rwxr-xr-x	asaadou	
Music System Folder 1/11/2017 5:00:20 PM	HW8P	12/6/2016 4:15:30 PM	rwxr-xr-x	asaadou	
ConeDrive System Folder 1/15/2017 9:36:47 PM	Labs	12/2/2016 10:38:14 PM	rwxr-xr-x	asaadou	
Pictures     System Folder     1/11/2017 5:00:20 PM	Music	8/30/2016 10:07:04 AM	rwxr-xr-x	asaadou	
Paved Games File folder 1/11/2017 5:00:21 PM	Pictures	8/30/2016 10:07:04 AM	rwxr-xr-x	asaadou	
P Searches File folder 1/11/2017 5:00:20 PM	Public	8/30/2016 10:07:04 AM	rwxr-xr-x	asaadou	
Videos System Folder 1/11/2017 5:00:20 PM	retreat	11/18/2016 11:54:52 AI	M rwxr-xr-x	asaadou	
i,gitconfig 1 KB GITCONFIG File 1/10/2017 8:18:35 PM	Spring2017	1/11/2017 5:12:27 PM	rwxr-xr-x	asaadou	
	Templates	8/30/2016 10:07:04 AN	rwxr-xr-x	asaadou	
	Videos	8/30/2016 10:07:04 AN	rwxr-xr-x	asaadou	
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	lab9code.cc	2 KB 10/26/2016 11:14:16 AI	vi rw-rr	asaadou	
	more_test	I KB 9/16/2016 1:5/:28 PM	rw-rr	asaadou	
	practice_probs1.pdf	21 KB 9/22/2016 12:06:41 AM	rw-rr	asaadou	¥
0 B of 69 B in 0 of 14	19 hidden 0 B of 6,269 KB in 0 of 28			24 h	idden

10. The left partition represents your local PC, while the right one is your server. You should now be able to move files around by simply dragging and dropping them to your desire location.