1. On Windows, you first need to download and install PuTTY and WinSCP if you have not already done so.

WinSCP is available from <http://winscp.net/>

For PuTTY follow this link and download and install the putty-0.62-installer.exe on it:

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

1. Run PuTTY (from the start menu), and connect to leavitt.lsa.umich.edu with your userid and password. Then follow the instructions below, substituting your uniqname for gears. In fact, if you want to find and replace all occurrences of "gears" in this document with your uniqname, that would be best (there's only one place you actually need Steve's ID, see note below). When prompted, it is recommended to use a passphrase you can easily remember. Lines that begin with "#" are comments and can be skipped.

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| [gears@leavitt ~]$ ssh-keygen -t rsa -b 2048 -C "gears@umich.edu"  Generating public/private rsa key pair.  Enter file in which to save the key (/home/gears/.ssh/id\_rsa):  Created directory '/home/gears/.ssh'.  Enter passphrase (empty for no passphrase): [Type a passphrase]  Enter same passphrase again: [Type passphrase again]  Your identification has been saved in /home/gears/.ssh/id\_rsa.  Your public key has been saved in /home/gears/.ssh/id\_rsa.pub.  The key fingerprint is:  a9:fc:07:e8:d2:20:36:22:f8:00:c2:17:ea:5c:3b:a8 gears@leavitt.lsa.umich.edu  The key's randomart image is:  (some unimportant output deleted)    [gears@leavitt ~]$ cd  [gears@leavitt ~]$ chmod a+rx .  [gears@leavitt ~]$ chmod go-w .  [gears@leavitt ~]$ mkdir public  [gears@leavitt ~]$ chmod a+rx public  [gears@leavitt ~]$ cp ~/.ssh/id\_rsa.pub ~/public/gears.pub  [gears@leavitt ~]$ cp ~/public/gears.pub /tmp/gears.pub  [gears@leavitt ~]$ ssh-copy-id -i ~/.ssh/id\_rsa.pub gears@leavitt.lsa.umich.edu  [gears@leavitt ~]$ cat /tmp/bash\_profile\_addition >> .bash\_profile  [gears@leavitt ~]$ chmod go-rwx ~/.ssh  [gears@leavitt ~]$ logout |

1. Next send Steve an email that step 2 has been completed.
2. Get the keys to your workstation:
3. Open WinSCP
4. Change the Hostname to leavitt.lsa.umich.edu
5. Click the Login Button
6. Change the local (right side) directory to C:\Users\gears
7. Drag the .ssh folder from the remote (left side) to the local (right side) and click Copy
8. Exit WinSCP
9. Set the environment variable GIT\_SSH to point to plink.exe, for example "C:\Progra~2\PuTTY\plink.exe" without the quotes (on 32 bit windows, it will be Progra~1)
   1. Open the Start Menu, Right Click on My Computer (between Music and Control panel will be something like LDEV-DZM64J1), and select Properties.
   2. In the window that opens (Control Panel -> System and Security -> System), select "Advanced system settings"
   3. In the System Properties window that pops up, click the Environment Variables button near the bottom.
   4. Add a new System variable with Variable name "GIT\_SSH" without the quotes and Variable value "C:\Progra~2\PuTTY\plink.exe" without the quotes
10. Use PuTTYgen to import an existing key (menu Conversions > Import) for your private key (C:\users\gears\.ssh\id\_rsa, not id\_rsa.pub) and save it in PuTTY format (menu File > Save private key) to the file "C:\Users\gears\.ssh\id\_putty.ppk" without quotes.
11. Add Pageant to your Autostart menu and modify the Pageant entry in the Autostart menu to automatically load your private key on startup. To do so:
    1. Create a new shortcut in the folder: C:\Users\gears\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup
    2. Type the location of the item like this (without quotes):

"C:\Progra~2\PuTTY\pageant.exe C:\Users\gears\.ssh\id\_putty.ppk"

* 1. Name it "pageant.exe" without quotes
  2. Upon your next login Pageant should automatically start, ask for your pass phrase, and display itself as a small icon in the bottom right of the menu bar displaying a computer with a hat. You can right click the icon to manage your keys.
  3. Run the shortcut now if you are not planning on logging out and back in before proceeding.
  4. Include your login name in git urls. Otherwise plink.exe will report strange errors.

1. Install Git if you have not already done so: http://code.google.com/p/msysgit/
2. Download Notepad2 4.2.25 Setup (x64) and install from http://www.flos-freeware.ch/notepad2.html
3. Wait for a response from the email you sent to Steve from step #2
4. Open a new DOS shell (start menu, type cmd.exe) to configure Git (assumes you use Notepad2.exe):

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| Microsoft Windows [Version 6.1.7601]  Copyright (c) 2009 Microsoft Corporation. All rights reserved.  C:\Users\gears> git config --global user.name "Steve Coffman"  C:\Users\gears> git config --global user.email "gears@umich.edu"  C:\Users\gears> cd \  C:\> mkdir git  C:\> cd git  C:\git> git config --global core.excludesfile C:/git/.gitignore  C:\git> echo .DS\_Store >> C:/git/.gitignore  C:\git> git config --global diff.tool bc3  C:\git> git config --global difftool.bc3.path "c:/program files/beyond compare 3/bcomp.exe"  C:\git> git config --global merge.tool bc3  C:\git> git config --global mergetool.bc3.path "c:/program files/beyond compare 3/bcomp.exe"  C:\git> git config --global core.editor "'C:/Program Files/Notepad2/notepad2.exe' -multiInst -notabbar -nosession -noPlugin"  C:\git> git clone gitolite@leavitt.lsa.umich.edu:testing |

You should see a file welcome.txt in a directory "testing" below this. Email me to let me know!

-Steve