



Installing cygwin/X on a windows machine to interface with UNIX machines

- 1) Go to <http://x.cygwin.com/>
- 2) Click on Install Cygwin/X now link under the  symbol and save the setup.exe file to the directory of your choice.
- 3) Once the file is downloaded, double click on it to run the setup program.
- 4) Click on Next
- 5) You may have a question about your virus protection software. You can probably leave this as the default setting.
- 6) Choose Install from Internet and click on Next
- 7) I suggest that you keep the default settings for the Root Directory and the RECOMMENDED settings for the Install For and Default File Type
 - a. Root directory as C:\cygwin
 - b. All Users (You will need to be an administrator to install for all users)
 - c. Unix
- 8) Click on Next
- 9) Select the directory where you would like to store the installation files that it will download (C:\cyginstall or maybe your home directory).
- 10) Click on Next
- 11) Direct Connection should be selected for your internet connection
- 12) Click on Next
- 13) Any of the sites should be fine. You may want to scroll down and find a site in the US and possibly close to your location.
- 14) Click on next
- 15) We need to select which packages to install now. By default the basic package is installed.
- 16) You can switch from the Category view to a number of other views to help find other packages to install by clicking on the View button. Each time you click, it will cycle through the different views. The Full view is very useful to find a specific package since it lists all of them in alphabetical order.
- 17) We should also add the following packages.
 - a. Nedit (will ensure that you get the X11 package.)
 - b. vim
 - c. there are many other utilities that may be of interest
 - d. If a package says Skip next to the  (arrows icon), click on the arrows icon and it should change from Skip to the newest version available in cygwin. If you keep clicking it will cycle through the install/uninstall options.
- 18) Click on Next to start the installation procedure
- 19) If you don't want a desktop icon or an icon added to the start menu, click those options off. These icons are for the bash shell only and not for Cygwin/X, which allows you to remotely run X11 applications.
- 20) Click on Finish
- 21) Click ok
- 22) Cygwin should now be available in your Start menu under Programs/Cygwin/Cygwin bash shell. Once you have started the program, you should have a terminal window. You may open up multiple windows. The bash terminal will not allow you to run any graphical programs. To access the graphical programs, you will need to type startx in the bash shell and a new window with X11 in the header should open. The X11 terminal will allow you to run graphical programs.
- 23) To access your remote unix machine, you will need to use the -X or -Y flag with ssh (ssh -Y username@remotemachine or ssh -X username@remotemachine). You may have problems with the -X flag.