Software Requirements for Accessing a Linux server using a Windows PC

PuTTy



- SSH and telnet client
- Download and installation instructions @
 http://www.chiark.greenend.org.uk/~sgtatham/putty/

- Xming
 - Software port of the X-Windows server to Windows
 - Download and installation instructions @
 http://www.ece.uvic.ca/computing/win-xsessions.shtml

What is PuTTY?



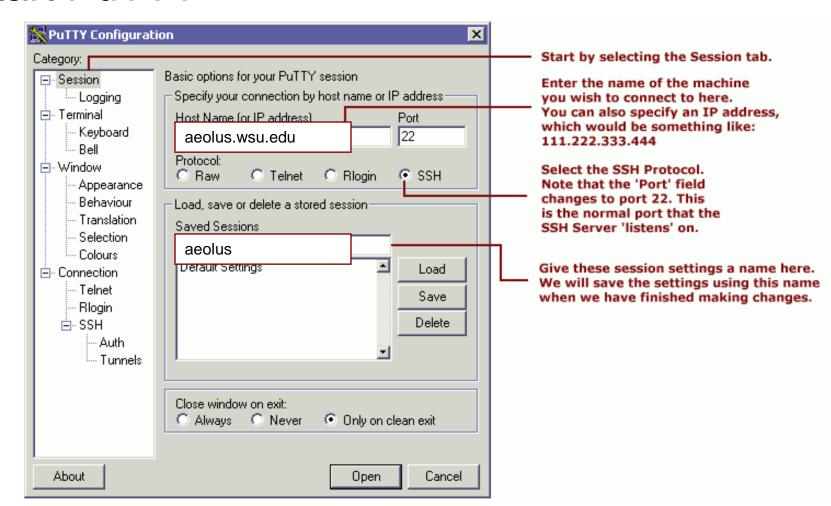
- PuTTY is run on a Windows machine, and used to connect to a Linux machine (i.e, Aeolus or Breezy)
- Anything you type (i.e. commands) into the PuTTy window is sent straight to the Linux machine
- Everything the Linux machine sends back is displayed in the PuTTy window
- So you can work on the Linux machine as if you were sitting at the Unix machine's console while actually sitting somewhere else!



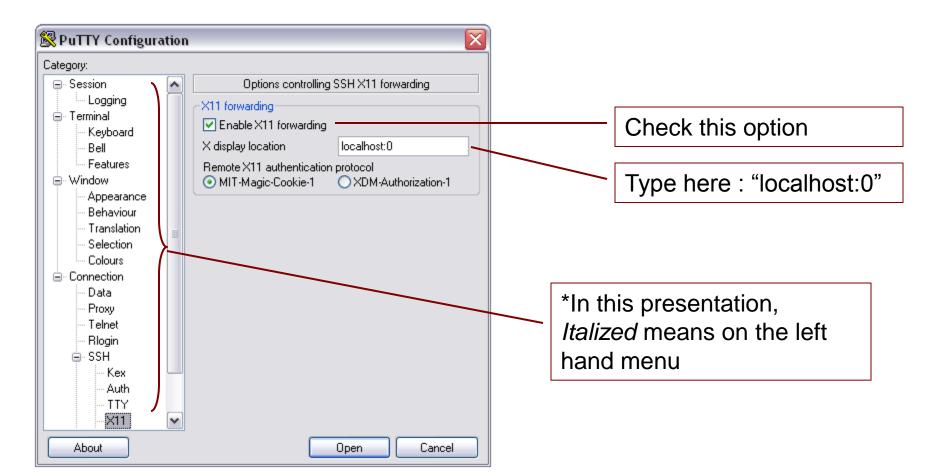
- Used to forward X11 sessions from Linux machines
 - Produce x11 terminal windows in your Windows PC
 - Useful for software such as Matlab, PAVE, etc.

- Start Xming (Start --> All Programs -->
 Xming --> Xming).
 - **This will start up as a button on your taskbar and no window will open
 - **Nothing else needs to be done with Xming.

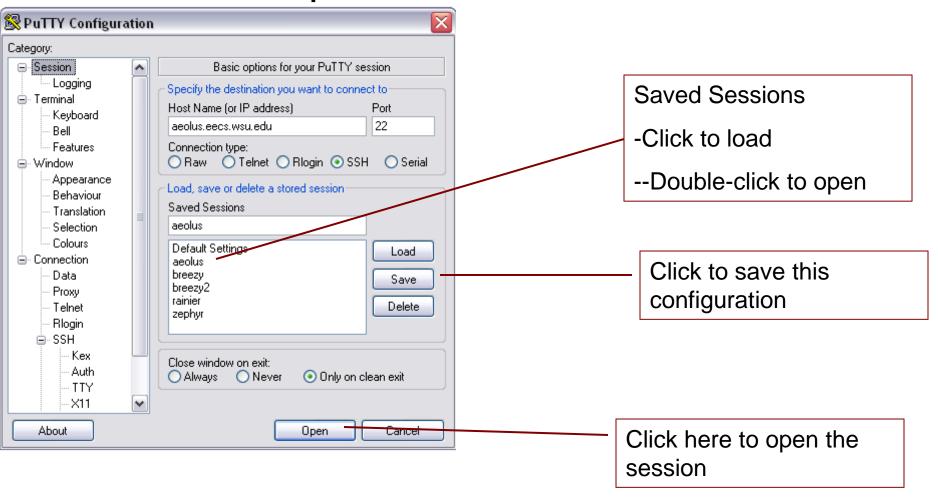
Start PuTTY



 Under Connection → SSH → X11*, check "Enable X11 forwarding" and type "localhost:0" in the appropriate space



Save and open the session under Session



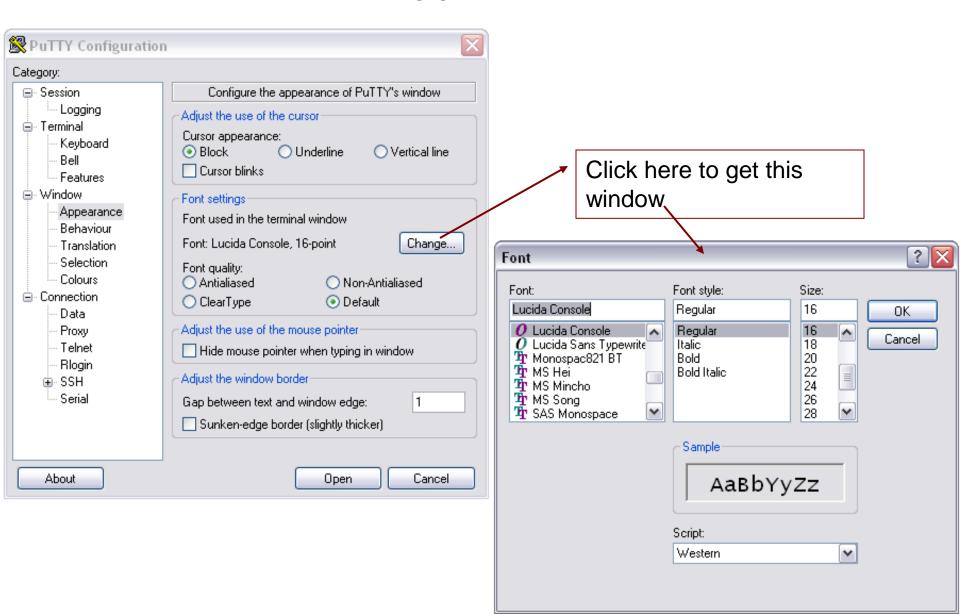
- Verify your DISPLAY environment variable
 - type "echo \$DISPLAY" at the command prompt in the PuTTY terminal
 - the result should be something towards the effect of "localhost:n.0" **
 - "-bash: echolocalhost:10.0: command not found"
- If not, use command
 - "setenv DISPLAY localhost:n.0" **
 - "-bash: seteny: command not found"
- **where n is a whole number greater than of equal to 10

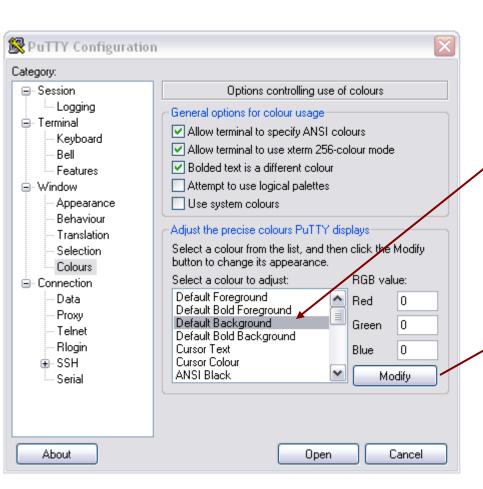
- Verify your X session is going through the secure tunnel
 - Try to start up an x-terminal by typing "xterm" at the command prompt
 - If an x-terminal appears on your screen, you have properly set the display variable, otherwise go use n = n + 1 (ie. 11, 12, 13, ...) in the DISPLAY variable

A Successful Configuration of \$DISPLAY

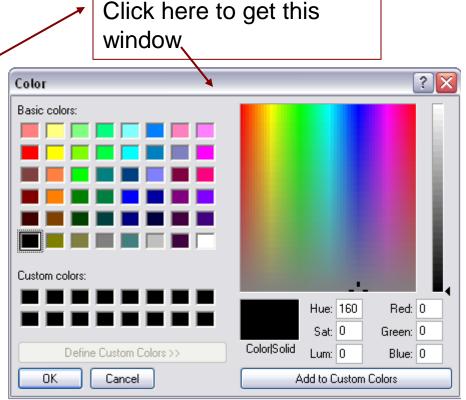
```
\chi xterm
                                       ramos@aeolus: /home/ramos/ >
🚜 aec
ram
                                             lar-4.ce.wsu.edu
We l
                                            ng & Archetecture Cluster!
Ιf
                                             ing list, I STRONGLY
                                             .wsu.edu, select "cluster"
sug
and
                                              at:
Ins
htt
                                             ub.txt
(2/14) Fluent is installed and running. Load the fluent module
       to use: module load fluent
(2/18) Outbound e-mail is now working! Use the #PBS designators for
       e-mail as shown in the example above to receive e-mail
       notification of job status (start, finish, abort)
--Jim (kusznir@eecs.wsu.edu)
ramos@aeolus: /home/ramos/ > echo $DISPLAY
localhost:16.0
ramos@aeolus: /home/ramos/ > xterm
```

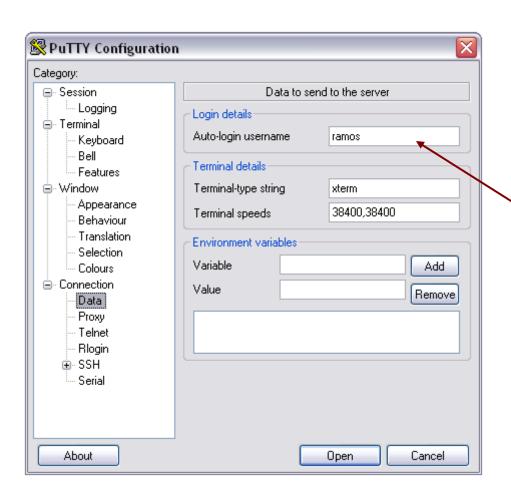
Change the font, font style, and font size under *Window* → *Appearance*





Change the color schemes (i.e. background color, text color, etc.) under Window → Colours





Set Automatic Login Name under Connection → Data

Put Login Name Here

Last Notes

- Use PuTTY to connect from school computers to AEOLUS or BREEZY
- Can connect from outside school network (i.e. your house or internet café) by using wireless internet then connecting VPN (Check http://www.wsu.edu/vpn/msPPTP.html for more details on the VPN setup and use)