Linux Connection Guide

Introduction:

This guide is intended for use with classes at DACC that use a Linux operating system as the platform for students. It provides a quick summary and examples of how to use some command line commands. Remember that all commands are *lower case.*

Connecting to Linux:

Unless you have Linux installed on a PC that is in front of you, you will have to connect to a server. There are three basic ways to connect to a server. To transfer files you can use an FTP connection. To be a user on the system you can connect via a telnet connection or an X windows connection.

Telnet

From DACC or from home you should use an application called PuTTY. It is available on the Internet for free.

Instructions:
Go to the start button, Programs, Internet&NMSU , Putty.
Select *OECSLinux* under saved section or
Host Name set to *dab-oect2.nmsu.edu* or *128.123.227.69*
Click on SSH (sets port 22)
Click the OPEN button

A window should appear with a login prompt. See **login** below for login instructions.

FTP

WS-FTP Pro is a user-friendly product for transferring files to and from the Linux server and your PC.

Instructions:
Go to the start button, Programs, Internet&NMSU , WS-FTP95 LE.
Select *OECSLinux* under Profile Name or
Host Name set to *dab-oect2.nmsu.edu* or *128.123.227.69*

Enter you user name in User ID
Click the OK button

A window should appear with a password prompt. See **login** below for login instructions.

VNCViewer

From DACC or from home you should use an application called Real VNCViewer. It is available on the Internet for free.

Instructions:
You must telnet/ssh to the server first. After login type the following command at the command prompt:
*vncserver :*xx (xx is your port number assigned by your instructor)
Go to the start button, Programs or find the desktop icon.
Enter dab-oect2.nmsu.edu: your port number for server and port number
Ex: *dab-oect2.nmsu.edu:*xx (xx is your port number assigned by your instructor)
Enter your password when prompted.
A GUI interface should open and you can do your work.

When done, logout of your GUI then go to your telnet session an enter:
*vncserver –kill :*xx (xx is your port number assigned by your instructor)

Commands:
Note that items in [ ] are optional.

Login
Your login ID or user name should be the same as it is for WebCT and your NMSU account. The ID is case sensitive, Tim is not the same as TIM, so make sure the cap lock key is off. Your ID will be <u>all lower case</u>. Your initial password will be your last name followed by four numbers. (i.e. smith1234) Your instructor will give you the numbers in class. Again, it will be all lower case and no spaces. No characters will be echoed back to your screen, <u>nothing will appear as you type,</u> so be careful. <u>Don't</u> use the numeric keypad to type the numbers.

Logout
Always log yourself off of a Linux server when you are done with your session.

Command:
Syntax - *logout*

Example:
logout

Emacs
   Emacs is a text editor.

 Command:
   Syntax - *emacs*

   Example:
    emacs myfile.htm

   emacs commands:
          F10 - open menu options
          ESC ESC ESC – get out of menu's and return to editing

          Save a file: F10 f s {F10 f(for file) s(for save)}
          Exit emacs: F10 f e {F10 f(for file) e(for exit)}

Vi
   vi is a text editor.

 Command:
   Syntax - *vi*

   Example:
    vi myfile.htm

   vi commands:
          i - insert mode to edit text
          ESC – to exit insert mode and switch to command mode

          Save a file: ESC :w {w is for write}
          Exit vi: ESC :q { q is for quit}
          Eixt without saving: ESC :q! {force quit and **not** save any changes}

Sample commands used in a working session during class.

Step	Description	Commands	Notes
1	Login Telnet(ssh) or Xwindows	Login: billybob Password	Names are case sensitive Passwords are not echoed to screen
2	Make a new directory	mkdir ch3	Makes a new directory "ch3" under user home /home/12801/billybob/ch3
3	Change to new directory	cd ch3	
4	Copy myfilech3.txt file	**cp /home/12801/CLASS/myfilech3.txt .**	Note the blank and period after the txt
5	Edit file	emacs myfilech3.txt vi myfilech3.txt	If in GUI interface use emacs myfilech3.txt &
6	Copy file to public folder	**cp myfilech2.htm ~/public_html/ .**	Note the blank and period after the htm
7	All other command	w, pwd, more, less, …	
8	Print files	lp myfilech3.txt lp –d Lab213P1 myfilech3.txt	Prints in room 214 Prints in Lab 213 Printer 1
9	Look a files in directory	ls –l	-l is long format (ls space minus lower case L)
10	Change to previous directory	cd ..	Change to dir, period period
10	Logout	Logout	