

**Connecting to Unix**

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**Overview**

- ⇒ Preliminaries
  - Learning about Unix
  - A note about different systems
- ⇒ Making a connection
  - Using a telnet connection
  - Using a workstations
  - PC X Servers

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**A Note about Learning Unix**

- ⇒ Structural models are important
  - Just what is an operating system
- ⇒ Figure out how to find information
  - Online resources
- ⇒ Unix can't be taught – it must be learned
  - Goofing around is a good way to learn
  - Try things out
  - Listen to others *“Why not use touch -r file file”*

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## A Note about different systems

- ⇒ Linux is not Solaris is not OSF Unix.
  - There are Unix OS variations across platforms
- ⇒ The csh is not ksh is not bash
  - There are shell variations that make a difference in both commands, options, and script capabilities
- ⇒ CDE is not Openwin is not twm
  - There are differences in X window managers for different platforms and OSs

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## Making a connection

- ⇒ There are a couple ways to work on Unix.
- ⇒ The simplest, most basic approach:
  - Telnet from a PC or a terminal to a Unix system.
  - Use command line Unix commands to do work
  - Use Unix line editors to work on files
- ⇒ A mixed mode approach
  - Use PC tools to create or manipulate files
  - Use FTP to move files back and forth
  - Telnet to Unix to execute commands and manipulate files

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## Making a connection (2)

- ⇒ An advanced Unix approach
  - Use a workstation running an X Window System
  - Use graphical Unix editors and tools
  - Use Xterms to execute commands
- ⇒ An advanced mixed mode approach
  - Run PC software to make the PC an X-Terminal
  - Establish either an XDM or Telnet connection to a Unix system
  - Run graphical editors and tools on the Unix system with their displays set to the address of your X-Terminal

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## A PC telnet session

### ⇒ Run telnet

- On the start menu of an MS windows machine, there is a menu item called "Run"
- Select this item and type "telnet" in the text box
- When the DOS window opens with the telnet prompt, type "open" and the name of the machine to connect to:  
open paradox.sis.pitt.edu
- When the machine responds, login to the remote host
- When done, "exit" from the remote machine, and close the DOS window

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## A Basic telnet window

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Microsoft (R) Windows 2000 (TM) Version 5.00 (Build 2195)
Welcome to Microsoft Telnet Client
Telnet Client Build 5.00.99203.1

[Escape Character is 'CTRL+']
Microsoft Telnet> open paradox.sis.pitt.edu

login: spring
Password:
Last login: Tue Feb 5 09:43:29 from spring.sis.pitt.edu
(199)paradox: spring$
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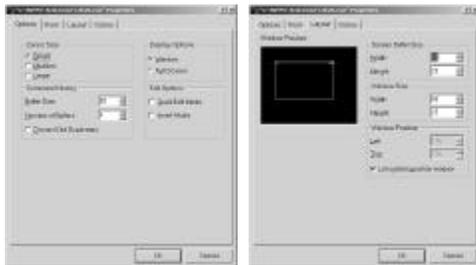
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## More on the telnet window



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## Main Screen



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## Using a PC as an Xserver

- ⇒ Configure the Lan Workplace Pro
  - Set your terminal type
  - Set the mode of operation
- ⇒ Open a telnet session to one or more hosts
  - Run X applications as if you were at a workstation
  - Run commands at the command line

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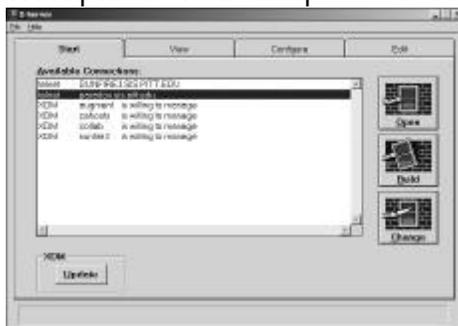
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## Workplace Pro Startup



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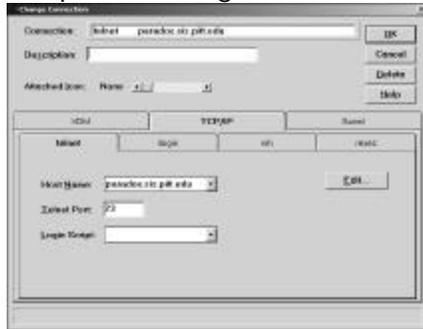
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## Workplace Configuration



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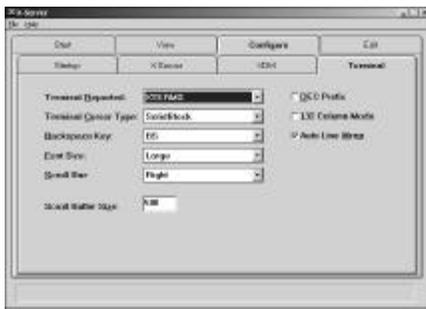
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## Workplace Configuration



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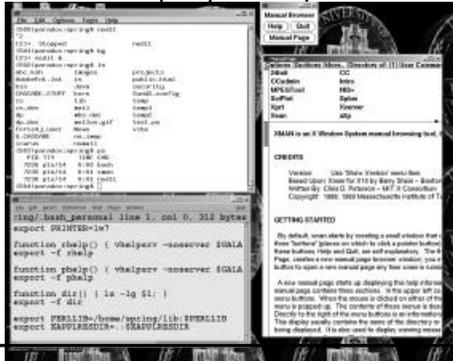
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## The PC X Display/Multiple Windows



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