IP/Unix Preparation Course
July 19, 2009

Exercises: Terminals and Consoles

1. **Open your first “virtual terminal” window:**

   Press the following key combination:

   \[ \text{Alt-Ctrl-F1} \]

   What do you see?

   Switch between virtual terminals 1 through 6. Once you are in a console window you can just press:

   \[ \text{Alt-F[1-6]} \]

   to move between consoles.

   Log in to a console as the user `sysadmin`:

   \[
   \begin{align*}
   \text{login: } & \text{sysadmin} \\
   \text{Password: } & \langle \text{given in class} \rangle
   \end{align*}
   \]

   Take a look at what processes are running on your machine:

   \[ $ \text{ps auxwww} \]

   If you had to you could kill a process that might have hung your X session (Gnome).

   To return to Gnome (your GUI) press:

   \[ \text{Alt-Ctrl-F7} \]

2. **Configure Minicom to work as a console for a router or switch**

   We want Minicom to be configured to use serial port `/dev/ttyS0` at 9600 bps with 8N1 and no hardware flow control for use later in the week. As `sysadmin` open a terminal window:

   1.) $ sudo minicom
   2.) Ctrl-a, z, then Choose “cOnfigure Minicom”
   3.) Choose “Serial port setup”
   4.) Set Serial Device to be `/dev/ttyS0`
   5.) Set Hardware Flow Control to “No”
   6.) Exit, then press Ctrl-a, z. Choose “comm Parameters”
   7.) Set Speed to 9600
   8.) Exit. Exit Minicom (Ctrl-a, x) and restart Minicom:
   9.) $ sudo minicom