IP/Unix Preparation Course
July 19, 2009

Exercises: Terminals and Consoles

1. **Open your first "virtual terminal" window:**

   Press the following key combination:

   ```
   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:

   ```
   Alt-F[1-6]
   ```

   to move between consoles.

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

   ```
   login: sysadmin
   Password: <given in class>
   ```

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

   ```
   $ 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:

   ```
   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 *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`