This documents describes some basic steps to use Linux Box to connect with devices via terminal and serial connection. My goal was to use RedHat Linux to connect to my packetshaper via console cable.

There are several tools, which can be used. One built-in with Red Hat is MINICOM. This is similar to Windows Hyperterminal, but all are command line oriented.

MINICOM:

Open a terminal and run minicom-s

```
[root@hawkeye root]# minicom –s
minicom: WARNING: configuraton file not found, using defaults

Welcome to minicom 2.00.0

Options: History Buffer, F-key Macros, Search History Buffer, T18n
Compiled on Jun 23 2002, 16:41:20

Press CTRL-A Z for help on special keys
```

This goes directly into the configuration

```
   Filenames and paths
   File transfer protocols
   Serial port setup
   Modem and dialing
   Screen and keyboard
   Save setup as dfl
   Save setup as..
   Exit
   Exit from Minicom
```

```
A –     Serial Device          : /dev/ttyS1
B –   Lockfile Location        :/var/lock
C –  Callin Program            :
D – Callout Program            :
E –     Bps/Par/Bits           : 38400 8N1
F-  Hardware Flow Control       :Yes
G – Software Flow Control       :No


Change which setting?
```

First, set the serial device correctly, for COM 1 set to **/dev/ttyS0**, for COM 2 set to **dev/ttyS1**. I'm using serial connection on Port COM 1.

```
A -      Serial Device        : /dev/ttyS1
B -   Lockfile Location       :/var/lock
C -   Callin Program          :
D - Callout Program           :
E -      Bps/Par/Bits         : 38400 8N1
F-   Hardware Flow Control     :Yes
G - Software Flow Control      :No

Change which setting? A
```

When pressing A, the cursor jumps to Serial Device and you can change the settings. Next, you have to change Speed, Paritiy and Bits by pressing E

```
A -      Serial Device        : /dev/ttyS0
B -   Lockfile Location       :/var/lock
C -   Callin Program          :
D - Callout Program           :
E -      Bps/Par/Bits         : 38400 8N1
F-   Hardware Flow Control     :Yes
G - Software Flow Control      :No

Change which setting? E
```

```
Current: 38400 8N1

   Speed          Parity          Data

A: 300           L: None         S: 5
B: 1200          M: Even         T: 6
C: 2400          N: Odd          U: 7
D: 4800          O: Mark         V: 8
E: 9600          P: Space
F: 19200                         Stopbits
G: 38400                         W: 1
H: 57600                         X: 2
I: 115200        Q: 8-N-1
J: 230400        R: 7-E-1



Choice, or <Enter> to exit?
```
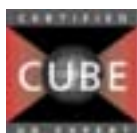
Most switches, routers supporting 9600, 8-N-1, so Press **E** and **Q**. Next, you should save setup as dfl-

```
  Filenames and paths
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  Save setup as dfl
  Save setup as..
  Exit
  Exit from Minicom
```

```
[root@hawkeye root]# minicom

Welcome to minicom 2.00.0

Options: History Buffer, F-key Macros, Search History Buffer, T18n
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Press CTRL-A Z for help on special keys


PacketShaper# AT S7=45 S0=0 L1 V1 X4 &c1 E1 Q0


PacketShaper#
```