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March 23, 2016

UNIX/Linux Administration

Setting up Server Remotely

You first need to get in the bios and set the com1 or comA port to vt100+ and flow control to none. There are a couple other settings there but I have forgotten.

Step 1: connect the serial cable to the server and the USB to the terminal machine.

Step 2: type “lsusb” into the terminal. Look for the USB that is listed as serial.

Step 3: remember the vendor id and the product id of the serial cable listed in lsusb. For example, ######:####### there will be two sets of numbers separated by a colon. The vendor ID will be on the left, and the product ID will be on the right.

Step 4: Type “sudo modprobe usbserial vendor=##### product=######”

The USB to serial cable I had was listed as USB0 on my machine.

Step 5: Type ‘sudo chmod 777 /dev/ttyUSB0 115200”

Enabling a getty on ttyS0 can be different on different Linux distros. These steps were made on Ubuntu.

Step 6: Type “sudo apt-get install setserial”

Step 7: Type “sudo apt-get install screen”

Step 8: Type “vi /etc/init/ttyS0.conf”

Step 9: Enter this into the file.

# /etc/init/ttyS0.conf

# this file needs to be added to put a getty on com1

# ounce this file is created run

# sudo start ttyS0

start on stopped rc RUNLEVEL=[12345]

stop on runlevel [!12345]

respawn

exec /sbin/getty –L 115200 ttyS0 vt102

Step 10: Type “sudo setserial –g /dev/ttyS0”

Step 11: Type “sudo start ttyS0”

Step 12: type “sudo screen /dev/ttyUSB0 115200”

Wake On Lan

Wake on LAN needs to be enabled in the bios.

There are multiple tools that can be used for wake on LAN. For example, eth tool, Wake On Lan, and etherwake. These tools send out a magic packet that remotely turns on the system.