

Private Subnetting Scheme for Advantage

1. Built a linux router with 4 ethernet cards in it. This allows us to have 3 private networks and 1 network with our given domain addresses. The addressing scheme follows:

eth0---->216.132.142.0	abcsinc.com
eth1---->192.168.1.0	hardware
eth2---->192.168.2.0	office
eth3---->192.168.3.0	software/development

eth0 also has a route to the Internet and does masquerading for all networks so they can access the Internet also. All machines on each network are plugged into their own switch in order to help route packets more efficiently.

2. To convert a department over from the 216 net to a private net the first step is to locate all of the machines that are to be located on the net. Then attach a toner to the network cable of each of the machines. At our main switch panel locate the end of each cable and plug them all into the same switch.

Thin Client Station Setup

1. The naming scheme for the thin clients is very important because we will have them on all three networks. Start the workstation addresses at 100 and add the third octet of the network to the end. An example of a thin client for each network:

```
tcs101_net1---->192.168.1.101
tcs101_net2---->192.168.2.101
tcs101_net3---->192.168.3.101
```

Example of windows pc or spotline:

```
pc101net1---->192.168.101
spot101net1---->192.168.1.101
```

The thin clients are booting off the linux router so they will have to be added to the bootptab and the hosts file manually. Example bootptab entry:

```
tcs101_net3:tc=.tcs:ha=004854661955:bf=vmlinuz.rtl8139:ip=192.168.3.101
tcs102_net3:tc=.tcs:ha=0000b4b462cb:bf=vmlinuz.ne2000:ip=192.168.3.102
```

note the different kernels for different ethernet cards

Example hosts file entry:

```
192.168.1.101 tcs101_net1
192.168.2.101 tcs101_net2
192.168.3.101 tcs101_net3
```

2. On a windows pc change the ipaddress of the machine in networking tcpip to an address on the new private network. Change the address for adwin to the new address of the sco server to connect to. Reboot the machine and check the connections.

