

## 5.2 Network configuration.

If you have a DHCP server enabled in your local network ,SMS will acquire an IP address automatically. In the case where a DHCP server isn't available and you need to configure your ethernet cards automatically, first check if your ethernet cards are automatically detected by checking `/proc/net/dev` or by running `'ifconfig'`

```
root@sms:~# grep eth /proc/net/dev
eth0: 3484894 6598 0 0 0 0      0      0 109113 1621 0 0 0 0 0 0
```

```
root@sms:~# ifconfig eth0
eth0  Link encap:Ethernet HWaddr 08:00:27:D8:0A:66
      inet6 addr: fe80::a00:27ff:fed8:a66/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:6663 errors:0 dropped:0 overruns:0 frame:0
      TX packets:1640 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:3489162 (3.3 Mb) TX bytes:110703 (108.1 Kb)
```

Slackware configures Ethernet interfaces through `/etc/rc.d/rc.inet1.conf`. So by changing `rc.inet1.conf` to

```
# Config information for eth0:
IPADDR[0]="192.168.2.11"
NETMASK[0]="255.255.255.0"
USE_DHCP[0]=""
DHCP_HOSTNAME[0]=""
```

```
# Default gateway IP address:
GATEWAY="192.168.2.1"
```

For changes to apply run

```
root@sms:~# ifconfig eth0 down
root@sms:~# /etc/rc.d/rc.inet1
root@sms:~# ifconfig eth0
eth0  Link encap:Ethernet HWaddr 08:00:27:D8:0A:66
      inet addr:192.168.2.11 Bcast:192.168.2.255 Mask:255.255.255.0
      inet6 addr: fe80::a00:27ff:fed8:a66/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:8506 errors:0 dropped:0 overruns:0 frame:0
      TX packets:2110 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:3612599 (3.4 Mb) TX bytes:164526 (160.6 Kb)
```

DNS servers are listed in `/etc/resolv.conf`. To manually add name servers edit `/etc/resolv.conf` and enter e.g.

```
nameserver 192.168.2.1
nameserver 208.67.222.222
nameserver 208.67.220.220
```

Another way to configure manually your `eth0` is by using `'ifconfig'` like

```
root@sms:~# ifconfig eth0 192.168.2.11 netmask 255.255.255.0 broadcast 192.168.2.255
```

The same way you can add virtual network interfaces like

```
root@sms:~# ifconfig eth0:1 192.168.1.1 netmask 255.255.255.0 broadcast 192.168.1.255
```

If you want virtual interfaces to automatically start at boot place an entry in `/etc/rc.d/rc.local` like:

```
/sbin/ifconfig eth0:1 192.168.1.1 netmask 255.255.255.0 broadcast 192.168.1.255
```