

# Networking – multiple nics not setting up

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  - *Date:* Mon, 26 Nov 2007 03:33:06 -0800
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Hi folks,

I have a networking problem with a fresh install/upgrade of feisty to gutsy.

The box in question has three nics but they aren't setting up correctly. All are correctly connected to a switch and the leds on the card are lit. I'm using static IPs and there is no wireless connection either. There seems to be some sort of auto configuration mechanism at work that is creating interfaces I don't want/need and overriding the one I do want even creating a fictitious network.

At first I could only get one card detected – the one I set up manually – IP, netmask, GW, static address. The other cards didn't even show up. Later I began playing with `/etc/network/interfaces` and one of the cards kept being assigned an incorrect `FF:FF:FF:FF:FF:FF` mac address while the other seemed ok.

The thing is there should be an `eth1` interface set up. Instead I get two virtual interfaces `eth3` and `eth3:avah`. The basic information for `eth3` is correct but I don't want the `eth3:avah` interface or the `169.x.x.x` network. It's the first time I've seen it. Is it dhcp, wireless, or IPv6? More importantly, how do I get rid of it. You can see what I want from the `/etc/network/interfaces` file below and the output from `ifconfig -a` and `route -n`.

All advice appreciated.

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## Networking – multiple nics not setting up

```
cat /etc/network/interfaces
```

```
auto lo
```

```
iface lo inet loopback
```

```
auto eth0
```

```
iface eth0 inet static
address 192.168.1.5
netmask 255.255.255.0
gateway 192.168.1.1
```

```
auto eth1
```

```
iface eth1 inet static
address 192.168.1.6
netmask 255.255.255.0
gateway 192.168.1.1
```

```
auto eth2
```

```
iface eth2 inet static
address 192.168.1.2
netmask 255.255.255.0
gateway 192.168.1.1
```

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```
ifconfig -a
```

```
eth0 Link encap:Ethernet HWaddr 00:40:04:82:EA:65
inet addr:192.168.1.5 Bcast:192.168.1.255 Mask:255.255.255.0
inet6 addr: fe80::250:4ff:fe82:ea66/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:142 errors:0 dropped:0 overruns:0 frame:0
TX packets:60 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:17484 (17.0 KB) TX bytes:6310 (6.1 KB)
Interrupt:5 Base address:0xe000
```

```
eth2 Link encap:Ethernet HWaddr 00:A1:CC:D6:34:CF
inet addr:192.168.1.2 Bcast:192.168.1.255 Mask:255.255.255.0
inet6 addr: fe80::2a0:ccff:fed6:34ce/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:97 errors:1 dropped:0 overruns:0 frame:0
```

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## Networking – multiple nics not setting up

TX packets:46 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:13988 (13.6 KB) TX bytes:5142 (5.0 KB)  
Interrupt:11 Base address:0xe400

eth3 Link encap:Ethernet HWaddr 00:54:BA:51:5D:F5  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:29 errors:0 dropped:0 overruns:0 frame:0  
TX packets:56 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:3602 (3.5 KB) TX bytes:9114 (8.9 KB)  
Interrupt:9 Base address:0x2000

eth3:avah Link encap:Ethernet HWaddr 00:54:BA:51:5D:F5  
inet addr:169.254.8.220 Bcast:169.254.255.25 Mask:255.255.0.0  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
Interrupt:9 Base address:0x2000

lo Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:16436 Metric:1  
RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

=====  
=====

```
route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use
Iface
192.168.1.0 0.0.0.0 255.255.255.0 U 0 0 0
eth0

192.168.1.0 0.0.0.0 255.255.255.0 U 0 0 0
eth2

169.254.0.0 0.0.0.0 255.255.0.0 U 0 0 0
eth3

169.254.0.0 0.0.0.0 255.255.0.0 U 1000 0 0
eth0

0.0.0.0 192.168.1.1 0.0.0.0 UG 100 0 0
eth2

0.0.0.0 192.168.1.1 0.0.0.0 UG 100 0 0
eth0
```

## Networking – multiple nics not setting up

```
0.0.0.0 0.0.0.0 0.0.0.0 U 1000 0 0  
eth3
```

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