

Re: Routing and ARP Problem – HELP

Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.networking/2005-03/0304.html>

From: Adem Sen (senadem_at_web.de)

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In article <Ob0Xd.235\$J11.70@read3.inet.fi>, tauno.voipio@iki.fi.NOSPAM.invalid says...

> Adem Sen wrote:

>> Hello Newsgroup,

>>

>> I could not find any solution for my problem, and hope to fine it here.

>>

>> Some specifications:

>> Gentoo Linux (2.6.8.1) running on HP ProLiant DL 360 G4 2x3.0 GHz

>> DualCore XEON

>> 1 x 2 Port OnBoard Mobo nic (tg3 module)

>> 2 x 4 Port Intel Pro 1000 (So we have 10 eth Interfaces – from eth0 to

>> eth9)

>>

>> My Problem was, that eth0 had answered to any ARP Request, which was

>> sent to eth1 – eth9 for example. So it answered every arp request for he

>> other Interfaces.

>>

>> I followed these Steps at:

>> <http://forums.gentoo.org/viewtopic.php?p=2149737#2149737> and now my eth0

>> interface answers only to ARP Requests, which are explicit for itself.

>>

>> But now, the other Interfaces do not function correctly. When I try to

>> ping eth1 for example, I see the ARP Request (tcpdump) on eth1 but eth1

>> does not answer the ARP REQUEST, so no IP connection gets established.

>>

>> Can anyone please give me a hint? What is wrong here? Why do my other

>> eth Interfaces no more answer to ARP Requests? My eth0 – and only eth0 –

>> still function as it should.

>>

>

> Please post the output of the commands (as root):

>

> ifconfig -a

> route -n

> so your setup can be verified.

Thanks, hee is "route -n":

Kernel IP routing table

```
Destination Gateway Genmask Flags Metric Ref Use Iface
10.72.0.0 0.0.0.0 255.255.248.0 U 0 0 0 eth0
10.72.0.0 0.0.0.0 255.255.248.0 U 0 0 0 eth1
10.72.0.0 0.0.0.0 255.255.248.0 U 0 0 0 eth2
127.0.0.0 127.0.0.1 255.0.0.0 UG 0 0 0 lo
0.0.0.0 10.72.0.254 0.0.0.0 UG 0 0 0 eth0
```

And here is "ifconfig -a":

```
eth0 Link encap:Ethernet HWaddr 00:11:85:C4:06:0B
      inet addr:10.72.0.135 Bcast:10.72.0.255 Mask:255.255.248.0
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:5769901 errors:0 dropped:0 overruns:0 frame:0
      TX packets:5329748 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:923114800 (880.3 Mb) TX bytes:604379903 (576.3 Mb)
      Interrupt:5
```

```
eth1 Link encap:Ethernet HWaddr 00:11:85:C4:06:0A
      inet addr:10.72.0.136 Bcast:10.72.0.255 Mask:255.255.248.0
      UP BROADCAST MULTICAST MTU:1500 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:1000
      RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
      Interrupt:5
```

```
eth2 Link encap:Ethernet HWaddr 00:04:23:B1:89:C8
      inet addr:10.72.0.137 Bcast:10.72.0.255 Mask:255.255.248.0
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:354741 errors:0 dropped:0 overruns:0 frame:0
      TX packets:1017 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:23276340 (22.1 Mb) TX bytes:65088 (63.5 Kb)
      Base address:0x5000 Memory:fdee0000–fdf00000
```

```
eth3 Link encap:Ethernet HWaddr 00:04:23:B1:89:C9
      inet addr:10.72.0.138 Bcast:10.72.0.255 Mask:255.255.255.255
      UP BROADCAST MULTICAST MTU:1500 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:1000
      RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
      Base address:0x5040 Memory:fdec0000–fdee0000
```

```
eth4 Link encap:Ethernet HWaddr 00:04:23:B1:89:CA
      inet addr:10.72.0.139 Bcast:10.72.0.255 Mask:255.255.255.255
      UP BROADCAST MULTICAST MTU:1500 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
```

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collisions:0 txqueuelen:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Base address:0x5080 Memory:fdea0000–fdec0000

eth5 Link encap:Ethernet HWaddr 00:04:23:B1:89:CB
inet addr:10.72.0.140 Bcast:10.72.0.255 Mask:255.255.255.255
UP BROADCAST MULTICAST MTU:1500 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:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Base address:0x50c0 Memory:fde80000–fdea0000

eth6 Link encap:Ethernet HWaddr 00:04:23:B1:8A:24
inet addr:10.72.0.141 Bcast:10.72.0.255 Mask:255.255.255.255
UP BROADCAST MULTICAST MTU:1500 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:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Base address:0x6000 Memory:fdfe0000–fe000000

eth7 Link encap:Ethernet HWaddr 00:04:23:B1:8A:25
inet addr:10.72.0.142 Bcast:10.72.0.255 Mask:255.255.255.255
UP BROADCAST MULTICAST MTU:1500 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:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Base address:0x6040 Memory:fdfc0000–fdfe0000

eth8 Link encap:Ethernet HWaddr 00:04:23:B1:8A:26
inet addr:10.72.0.143 Bcast:10.72.0.255 Mask:255.255.255.255
UP BROADCAST MULTICAST MTU:1500 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:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Base address:0x6080 Memory:fdfa0000–fdfc0000

eth9 Link encap:Ethernet HWaddr 00:04:23:B1:8A:27
inet addr:10.72.0.144 Bcast:10.72.0.255 Mask:255.255.255.255
UP BROADCAST MULTICAST MTU:1500 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:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Base address:0x60c0 Memory:fdf80000–fdfa0000

imq0 Link encap:UNSPEC HWaddr 00–00–FF–FF–FF–FF–00–00–00–00–00–00–
00–00–00–00

NOARP MTU:1500 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:30
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

imq1 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00

NOARP MTU:1500 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:30
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:27578519 errors:0 dropped:0 overruns:0 frame:0
TX packets:27578519 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:1275092683 (1216.0 Mb) TX bytes:1275092683 (1216.0

Mb)

teql0 Link encap:UNSPEC HWaddr 00-00-FF-00-00-00-00-00-00-00-00-00-00-00-00-00

NOARP MTU:1500 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:100
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

Regards,

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Adem Sen