

Re: Simple network config problem?

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From: Mitch Zollinger (*ztanuki_at_netscape.net*)

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Hi,

Thanks for all the input.

>*The linux setup worked with the same hardware or did you change >anything?*
>*Did you change any network cabling?*

Yes, the linux setup worked with the exact same cabling & hardware.
Nothing has changed.

>*Also check with tcpdump if you can see any packets coming in or going*
>*out.*
>*Something like*
>
> *tcpdump -nes 1500 -i dc0*

If I do this from the server (I'm at work & can't access the internal client right now), I do see packets:

```
$ tcpdump -nes 1500 -i dc0 &  
$ ping 192.168.1.7  
06:39:47.028301 0:a0:cc:61:d4:b8 ff:ff:ff:ff:ff:ff 0806 42: arp who-has  
192.168.1.7 tell 192.168.1.100  
06:39:48.030206 0:a0:cc:61:d4:b8 ff:ff:ff:ff:ff:ff 0806 42: arp who-has  
192.168.1.7 tell 192.168.1.100  
06:39:49.040159 0:a0:cc:61:d4:b8 ff:ff:ff:ff:ff:ff 0806 42: arp who-has  
192.168.1.7 tell 192.168.1.100  
---- 192.168.1.7 ping statistics ----  
3 packets transmitted, 0 packets received, 100% packet loss
```

I've done as you both suggested and tried to isolate the problem. I've completely turned off the packet filter in rc.conf and removed the bridgename.bridge0 file. Now I just have two ethernet interfaces.

If I do a 'netstat -rnf inet' after rebooting the machine:

```
Internet:  
Destination Gateway Flags Refs Use Mtu Interface  
default 12.234.88.1 UGS 0 2 - ne3
```

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```
12.234.88/23 link#2 UC 0 0 – ne3
12.234.88.1 0:a:8b:6d:90:54 UHL 1 0 – ne3
12.234.89.65 127.0.0.1 UGHS 0 0 33224 lo0
127/8 127.0.0.1 UGRS 0 0 33224 lo0
127.0.0.1 127.0.0.1 UH 2 0 33224 lo0
192.168.1/24 link#1 UC 0 0 – dc0
224/4 127.0.0.1 URS 0 0 33224 lo0
```

There is no route information for the internal LAN NIC (192.168.1.100) even though it's reported by ifconfig -a:

```
dc0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
  address: 00:a0:cc:61:d4:b8
  media: Ethernet autoselect (100baseTX)
  status: active
  inet 192.168.1.100 netmask 0xfffff00 broadcast 192.168.1.255
  inet6 fe80::2a0:ccff:fe61:d4b8%dc0 prefixlen 64 scopeid 0x1
ne3: flags=8863<UP,BROADCAST,NOTRAILERS,RUNNING,SIMPLEX,MULTICAST> mtu 1500
  address: 00:e0:29:38:55:27
  media: Ethernet autoselect (10baseT)
  inet6 fe80::2e0:29ff:fe38:5527%ne3 prefixlen 64 scopeid 0x2
  inet 12.234.89.65 netmask 0xfffffe00 broadcast 255.255.255.255
```

Now, if I ping an internal host (192.168.1.7), the ping fails, but the routing table changes to:

```
Internet:
Destination Gateway Flags Refs Use Mtu Interface
default 12.234.88.1 UGS 0 2 – ne3
12.234.88/23 link#2 UC 0 0 – ne3
12.234.88.1 0:a:8b:6d:90:54 UHL 1 0 – ne3
12.234.89.65 127.0.0.1 UGHS 0 0 33224 lo0
127/8 127.0.0.1 UGRS 0 0 33224 lo0
127.0.0.1 127.0.0.1 UH 2 0 33224 lo0
192.168.1/24 link#1 UC 0 0 – dc0
192.168.1.7 link#1 UHL 0 1 – dc0
224/4 127.0.0.1 URS 0 0 33224 lo0
```

(Note the entry for 192.168.1.7) I'm interpreting this to mean that there is no layer2 problem, but there is a layer3 problem with sending/receiving the ICMP packets.

I've also tried deleting the 192.168.1/24 route and adding the route with 192.168.1.100 as the gateway, but when I ping I get an arpresolve error:

```
$ route delete -net 192.168.1
$ route add -net 192.168.1 192.168.1.100
$ ping 192.168.1.7
arpresolve: can't allocate linfo (in blue reverse text)
```

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And if I ping 192.168.1.100 (the OpenBSD server) from the linux client, the server throws the following error on the console:

```
arplookup: unable to enter address for 192.168.1.7 (in blue reverse text: one message for every ping packet)
```

I also checked out my /etc/hosts file:

```
::1 localhost.attbi.com localhost
127.0.0.1 localhost.attbi.com localhost
::1 tanuki.attbi.com tanuki
127.0.0.1 tanuki.attbi.com tanuki
127.0.0.1 outside.attbi.com outside
192.168.1.100 inside.attbi.com inside
```

I tried commenting out the last line, but that didn't change things.

Any additional ideas?

Thanks again,
zolli

jpd wrote:

```
> In article <1062535426.233919@sj-nntpcache-5>, Mitch Zollinger wrote:
>
>>I just replaced Linux with OpenBSD 3.3 on my home NAT server / firewall.
>> I'm having some difficulty getting a basic 2 NIC setup to work
>>properly.
>
>
> The linux setup worked with the same hardware or did you change anything?
> Did you change any network cabling?
>
> [snip]
>
>>If I try to ping the OpenBSD firewall (192.168.1.100) from an internal
>>client, I get no return packets; if I try to ping an internal client
>>from the BSD box, I also receive no return packets.
>
>
> Then it might be a firewall problem, that is, turn off all firewalling
> (and NAT and whatnot) rules and see if you can make dc0 work with the
> internal network first. Oh, and pull the ne3 plug for the time being.
>
> Once you have a connection there, you can continue with setting up NAT.
>
> Also check with tcpdump if you can see any packets coming in or going out.
> Something like
>
> tcpdump -nes 1500 -i dc0
>
```

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- > *should tell you if there's anything going on. Try on both sides.*
- >
- >
- >
- >> *It doesn't appear*
- >>*to be a hardware problem, since I receive no error messages and I can*
- >>*see the NIC & hub lights flashing appropriately.*
- >
- >
- > *You still might have a hardware problem: maybe one of the network interfaces*
- > *on either end of the cable has a broken tx or rx unit. Or maybe your cabling*
- > *is /slightly/ wrong. Check for correct wiring _for ethernet_. Using the wrong*
- > *pairs might get you lights but no connection. Or maybe a connection but lots*
- > *of late colisions or it just won't sync right on 100BaseTX. Just check. :-)*
- >
- >