

Re: [opensuse] Two NIC's, one connected, Ping Both...?

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Source: <http://linux.derkeiler.com/Mailing-Lists/SuSE/2008-07/msg01577.html>

- *From:* William Hammond <tech@xxxxxxxxxxx>
 - *Date:* Mon, 14 Jul 2008 21:01:14 -0700
-

At 07:58 PM 7/14/2008, Brian K. White wrote:

----- Original Message -----

From: "William Hammond" <tech@xxxxxxxxxxx>

To: "John Andersen" <jsamyth@xxxxxxxx>

Cc: "open SuSE mail list" <opensuse@xxxxxxxxxxx>

Sent: Monday, July 14, 2008 4:25 PM

Subject: Re: [opensuse] Two NIC's, one connected, Ping Both...?

> At 09:00 AM 7/14/2008, John Andersen wrote:

>> On Mon, Jul 14, 2008 at 1:24 AM, William Hammond <tech@xxxxxxxxxxx> wrote:

>>> The real problem here is that I so far have been unable to connect

>>> to a remote 10.3 Server.

>>>

>>> Firewall is active, but all necessary ports are open,

>>> Server is behind a Router, and the Router is doing Port Forwarding.

>>> the this case, 5901,5801,22 ----

>>>

>>> This is the only site I can;t get into with Putty. (SSH on 22)

>>>

>>> One thing that bothers me is the Server.

>>>

>>> Like most modern boards it has two built in NIC.s and 100MB and a 1GB.

>>> Both are configured with Private IP's xxx.xxx.xxx.200 and xxx.xxx.xxx.201

>>> (I bet nobody can guess what the xx's represent.. ;-)

>>>

>>> Only one of these RJ45 Ports is connected, but I can Ping them both.

>>

>>

>> From where?\

>

> Local XP Workstations. Everything is behind the Router

>

>> From the server itself (pinging its own nics) its normal.

>> From anywhere else on that private subnet its not normal unless said

>>server is a router that routes between its two nics.

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- >
- > If this is the case, I don't know how or why. I didn't set up any IP forwarding on the Server.
- > Each just has a private IP, same Subnet, and the Router Gateway Address.
- > How could I test for this....?

Ah new clue. I've always been a bit unsure about this but I don't believe you are supposed to configure more than one nic on the same subnet. (Barring special cases like trunking/bonding where really neither nic has any ip, the logical (bond) interface has one instead.) Or, maybe that's legal but maybe that explains the being able to ping, which in that case may be no error at all. But I've seen more than one OS lock up from doing that, but then also, because I saw that I have avoided doing it since many years so maybe it's no longer a bad thing?

There is also such a thing as bridging and I've even seen it implemented right in the motherboard bios, but, because you have two different speed nics, and because I've only ever seen that once (well, many times but all the same motherboard, in that case it was 2 identical gigabit on a very recent model board, one of the AMD based ones iXsystems sells, I don't remember more) I'm guessing that isn't happening, though you could be doing it in linux. If `ifconfig -a` does not show a `br0` or `bond0` interface then you are not bridging so don't worry about that.

In yast, network devices, network card, routing, is the "enable ip forwarding" box checked?

No, I'm going to go to that site (can't call in) tomorrow and run the diagnostics you have all provided.

Not sure what's going on, but I think it is one of the reasons I can't call in. I don't think the router is forwarding as expected.

I'm also going to see if I can disable one on the NIC's in the BIOS, What do you think...?

Brian K. White brian@xxxxxxxxxx <http://www.myspace.com/KEYofR>
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