

## Re: Two networking cards

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2005-10/msg00167.html>

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- *From:* Wendel Hamilton <[WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 11 Oct 2005 03:51:04 -0700
- 

Ray,

It depends where the packets are being routed.

You really need to do some Tracert from workstation and servers in the .19 subnet to the servers in the .44 subnet and visa versa. Also tracert workstation to workstation .19 to .44 subnet and visa versa. That will tell you exactly where the packets are going and what is routing them.

It may be the dual port network card is routing packets, it shouldn't be so may be that is the problem.

Do some trace routes and post them.

"Ray" wrote:

- > Wendel,
- >
- > If so, it's weird, one of my servers works, the other doesn't. Is that
- > because it use a Dual-port networking card? And then is there a routing in
- > the card?
- >
- > Although they are on Internet, in fact, I set up firework, only local
- > workstations can access them, so for the local network.
- >
- > Ray
- >
- > "Wendel Hamilton" <[WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in
- > message [news:2421F8E5-8E59-4F68-AC53-7BD5EB51C333@xxxxxxxxxxxxxxxxxxxx](mailto:news:2421F8E5-8E59-4F68-AC53-7BD5EB51C333@xxxxxxxxxxxxxxxxxxxx)
- >> Ray,
- >> What I think is happening is that your routers are routing all the traffic
- >> between your subnets out through the internet and back in again. Unless
- >> you
- >> have set up RIP or static routes on your workstations. Is that the case?
- >> Use
- >> tracert to find out.
- >> Network Teaming allows multiple network cards to share a single IP address
- >> thus doubling or more your network bandwidth to the server. I don't think
- >> that's what you are after. Do you want to load balance the internet or
- >> local
- >> network?
- >>

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>>  
>> "Ray" wrote:  
>>  
>>> Yeah, the gateway of 155.57.19.0/24 for workstations and servers is  
>>> 155.57.19.254 and that of 155.57.44.0/24 is 155.57.44.254, both gateways  
>>> are  
>>> Internet routers. We wanna use them for load balancing not for  
>>> redundancy.  
>>> Currently, it seems no routing between two cards in one server. What's  
>>> network teaming?  
>>> Thanks.  
>>>  
>>> Ray  
>>>  
>>> "Wendel Hamilton" <WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in  
>>> message [news:3A187A9D-CF70-4CD4-AED9-A7194156D682@xxxxxxxxxxxxxxxxxxxx](mailto:news:3A187A9D-CF70-4CD4-AED9-A7194156D682@xxxxxxxxxxxxxxxxxxxx)  
>>>> Ray,  
>>>> Ok here is the thing you have a gateway of 155.57.19.254 Is this your  
>>>> internet router?  
>>>> do the workstations have this as their default gateway?  
>>>> What is the gateway on the workstations in your 2 subnets?  
>>>> This is key to understanding how the traffic is routed and by what.  
>>>>  
>>>> If you want performance, load balancing or redundancy then you need to  
>>>> use  
>>>> network teaming.  
>>>> This gives you 1 virtual IP address over multiple network cards.  
>>>>  
>>>> "Ray" wrote:  
>>>>  
>>>>> Wendel, sorry for confusion. I've given all information on 4 cards.  
>>>>> All  
>>>>> of  
>>>>> them connected Ineternet directly.  
>>>>>  
>>>>> 2 cards (in fact, it's a Dual Port card) on working one are,  
>>>>> 155.57.19.210  
>>>>> with the gateway of 155.57.19.254 and 155.57.44.92 without the gateway  
>>>>> (in  
>>>>> fact, the gateway of 155.57.44.92/24 is 155.57.44.254, but the gateway  
>>>>> isn't  
>>>>> set because two cards are in win2k3 ). All computers on 155.57.19.0/24  
>>>>> and  
>>>>> 157.57.44.0/24 can access them (including PING, we have file sharing  
>>>>> service). The OS is windows 2003 enterprise version SP1.  
>>>>>  
>>>>> 2 cards (two separate cards) on non-working one are, 155.57.19.237  
>>>>> with  
>>>>> the  
>>>>> gateway of 155.57.19.254 and 155.57.44.72 without gateway either.  
>>>>> Computers

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> > > > on 155.57.19.0/24 can access 155.57.19.237 and those on 155.57.44.0/24  
> > > > can  
> > > > access 155.57.44.72, but 155.57.19.0/24 cannot access 155.57.44.72,  
> > > > vice  
> > > > versa. The OS is windows 2003 standard version SP1.  
> > > >  
> > > > The networking settings of the two servers are same (at lease I  
> > > > think),  
> > > > is  
> > > > there an internal routing in a Dual Port card? Does 2003 enterprise  
> > > > support  
> > > > more powerful on two cards? Or other setting I can configure? I never  
> > > > set  
> > > > up  
> > > > a server with two cards before, so confused.  
> > > >  
> > > > Thanks.  
> > > >  
> > > > Ray  
> > > >  
> > > >  
> > > >  
> > > > "Wendel Hamilton" <WendelHamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in  
> > > > message [news:366AE4E2-5772-4697-8A12-8436E517F130@xxxxxxxxxxxxxxxxxxxx](mailto:news:366AE4E2-5772-4697-8A12-8436E517F130@xxxxxxxxxxxxxxxxxxxx)  
> > > > > Ray,  
> > > > > Need more information on the physical topology  
> > > > > You have described only 2 out of the 4 network cards.  
> > > > > Is it?  
> > > > > <internet>---<nic2 155.57.19.0/24 server1  
> > > > > nic1xxx.xxx.xxx.yyy/24>-----,  
> > > > >  
> > > > > }-----<Workstations xxx.xxx.xxx.0/24>  
> > > > > <internet>---<nic2 155.57.44.0/24 server2 nic1  
> > > > > xxx.xxx.xxx.yyy/24>-----'  
> > > > >  
> > > > > or  
> > > > > <internet>---<nic2 xxx.xxx.xxx.xxx server1 nic1  
> > > > > 155.57.19.0/24>-----,  
> > > > >  
> > > > > }-----<workstations>  
> > > > > <internet>---<nic2 xxx.xxx.xxx.xxx server2 nic1  
> > > > > 155.57.44.0/24>-----'  
> > > > >  
> > > > > or  
> > > > > <internet>---<nic2 xxx.xxx.xxx.xxx server1 nic1  
> > > > > 155.57.19.0/24>-----<workstations>  
> > > > >  
> > > > >  
> > > > > <internet>---<nic2 xxx.xxx.xxx.xxx server2 nic1  
> > > > > 155.57.44.0/24>-----<workstations>  
> > > > >

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> > > > > or
> > > > ,----<nic2 xxx.xxx.xxx.xxx server1
> > > > nic1
> > > > 155.57.19.0/24>-----<workstations>
> > > > <internet>--<Router>--{
> > > >
> > > > '---<nic2 xxx.xxx.xxx.xxx server2
> > > > nic1
> > > > 155.57.44.0/24>-----<workstations>
> > > >
> > > >
> > > > "Ray" wrote:
> > > >
> > > >> Hi there,
> > > >>
> > > >> Here is an interesting question. We have two servers, each of them
> > > >> has
> > > >> two
> > > >> networking cards, all of them connect Internet directly (two
> > > >> subnets,
> > > >> 155.57.19.xxx and 155.57.44.xxx), but only cards on 155.57.19.xxx
> > > >> sets
> > > >> up
> > > >> a
> > > >> gateway, 155.57.19.254. My question is both cards on one of servers
> > > >> work
> > > >> very well, computers on both subnets 155.57.19.xxx and
> > > >> 155.57.44.xxx
> > > >> can
> > > >> access both cards, but one card on the other server works not well,
> > > >> computers on 155.57.44.xxx can access 155.57.44.72, computers on
> > > >> 155.57.19.xxx can access 155.57.19.237, but computers on
> > > >> 155.57.19.xxx
> > > >> cannot access 155.57.44.72.
> > > >>
> > > >> Configuration of working one as
> > > >> Windows 2003 Enterprise Version SP1
> > > >> An Intel dual port networking card
> > > >>
> > > >> Configuration of non-working one as
> > > >> Windows 2003 Standard Version SP1
> > > >> One Intel(R) PRO/1000 XT Network Connection and one Intel(R)
> > > >> PRO/100 S
> > > >> Server Adapter
> > > >>
> > > >> I don't know why one of them doesn't work. Is it networking
> > > >> configuration
> > > >> problem, Windows 2k3 version problem or networking card problem? In
> > > >> fact,
> > > >> I
> > > >> cannot figure out both two networking card connecting with
```

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>>>>> Internet.  
>>>>>  
>>>>> Please see the attached route tables, the top one is from working  
>>>>> server,  
>>>>> the bottom one is from non-working server.  
>>>>>  
>>>>> Thanks.  
>>>>>  
>>>>> Ray  
>>>>>  
>>>>> IPv4 Route Table  
>>>>>

```
=====
>>>>> Interface List
>>>>> 0x1 ..... MS TCP Loopback interface
>>>>> 0x10003 ...00 07 b3 2c d6 04 ..... Intel(R) PRO/1000 MT Dual Port
>>>>> Server
>>>>> Adapte
>>>>> r
>>>>> 0x10004 ...00 07 b3 2c d6 05 ..... Intel(R) PRO/1000 MT Dual Port
>>>>> Server
>>>>> Adapte
>>>>> r #2
>>>>>
```

```
=====
>>>>>
=====
>>>>> Active Routes:
>>>>> Network Destination Netmask Gateway Interface
>>>>> Metric
>>>>> 0.0.0.0 0.0.0.0 155.57.19.254
>>>>> 155.57.19.210
>>>>> 1
>>>>> 127.0.0.0 255.0.0.0 127.0.0.1
>>>>> 127.0.0.1
>>>>> 1
>>>>> 155.57.19.0 255.255.255.0 155.57.19.210
>>>>> 155.57.19.210
>>>>> 1
>>>>> 155.57.19.210 255.255.255.255 127.0.0.1
>>>>> 127.0.0.1
>>>>> 1
>>>>> 155.57.44.0 255.255.255.0 155.57.44.92
>>>>> 155.57.44.92
>>>>> 10
>>>>> 155.57.44.92 255.255.255.255 127.0.0.1
>>>>> 127.0.0.1
>>>>> 10
>>>>> 155.57.255.255 255.255.255.255 155.57.19.210
>>>>> 155.57.19.210
>>>>> 1
```

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```
> > > > 155.57.255.255 255.255.255.255 155.57.44.92
> > > > 155.57.44.92
> > > > 10
> > > > 224.0.0.0 240.0.0.0 155.57.19.210
> > > > 155.57.19.210
> > > > 1
> > > > 224.0.0.0 240.0.0.0 155.57.44.92
> > > > 155.57.44.92
> > > > 10
> > > > 255.255.255.255 255.255.255.255 155.57.19.210
> > > > 155.57.19.210
> > > > 1
> > > > 255.255.255.255 255.255.255.255 155.57.44.92
> > > > 155.57.44.92
> > > > 1
> > > > Default Gateway: 155.57.19.254
> > > >
```

```
=====
> > > > Persistent Routes:
> > > > None
> > > >
> > > >
> > > > IPv4 Route Table
> > > >
```

```
=====
> > > > Interface List
> > > > 0x1 ..... MS TCP Loopback interface
> > > > 0x30004 ...00 02 e5 c2 3f fc ..... Intel(R) PRO/100 S Server
> > > > Adapter
> > > > 0x30005 ...00 06 3e f2 ec c4 ..... Intel(R) PRO/1000 XT Network
> > > > Connection
> > > >
```

```
=====
> > > >
=====
> > > > Active Routes:
> > > > Network Destination Netmask Gateway Interface
> > > > Metric
> > > > 0.0.0.0 0.0.0.0 155.57.19.254
> > > > 155.57.19.237
> > > > 1
> > > > 127.0.0.0 255.0.0.0 127.0.0.1
> > > > 127.0.0.1
> > > > 1
> > > > 155.57.19.0 255.255.255.0 155.57.19.237
> > > > 155.57.19.237
> > > > 1
> > > > 155.57.19.237 255.255.255.255 127.0.0.1
> > > > 127.0.0.1
> > > > 1
> > > > 155.57.44.0 255.255.255.0 155.57.44.72
```

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```
> > > > 155.57.44.72
> > > > 20
> > > > 155.57.44.72 255.255.255.255 127.0.0.1
> > > > 127.0.0.1
> > > > 20
> > > > 155.57.255.255 255.255.255.255 155.57.19.237
> > > > 155.57.19.237
> > > > 1
> > > > 155.57.255.255 255.255.255.255 155.57.44.72
> > > > 155.57.44.72
> > > > 20
> > > > 224.0.0.0 240.0.0.0 155.57.19.237
> > > > 155.57.19.237
> > > > 1
> > > > 224.0.0.0 240.0.0.0 155.57.44.72
> > > > 155.57.44.72
> > > > 20
> > > > 255.255.255.255 255.255.255.255 155.57.19.237
> > > > 155.57.19.237
> > > > 1
> > > > 255.255.255.255 255.255.255.255 155.57.44.72
> > > > 155.57.44.72
> > > > 1
> > > > Default Gateway: 155.57.19.254
> > > >
```

---

```
> > > > Persistent Routes:
```

• *Follow-Ups:*

- ◆ **Re: Two networking cards**  
◇ From: Ray
- ◆ **Re: Two networking cards**  
◇ From: Ray

• *References:*

- ◆ **Two networking cards**  
◇ From: Ray
- ◆ **Re: Two networking cards**  
◇ From: Ray
- ◆ **Re: Two networking cards**  
◇ From: Wendel Hamilton
- ◆ **Re: Two networking cards**  
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- ◆ **Re: Two networking cards**  
◇ From: Wendel Hamilton
- ◆ **Re: Two networking cards**  
◇ From: Ray

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